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The Faculty of Medicine
COLLEGE OF PHYSICIANS
& SURGEONS

Columbia University Bulletin

1979-1980

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The Faculty of Medicine
College of Physicians & Surgeons

Columbia University Bulletin

1979-1980

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Academic Calendar, 1979–1980

Major Religious Holidays

For a statement of University policy on absence for the observance of religious holidays see *Admission, Registration, and Expenses*—Attendance.

JUNE

25-29 Monday-Friday.* Registration, including payment of tuition and fees, for fourth-year students.

25 Monday, through July 6, Friday.* Registration, including payment of tuition and fees, for third-year students.

JULY

2 **Monday. Academic year begins for third- and fourth-year students.**

4 **Wednesday. Independence Day. Holiday for fourth-year students.**

9 Monday. Major Clinical Year begins for third-year students.

AUGUST

1 Wednesday.† Last day to apply or reapply for all degrees to be conferred in October (see September 6).

20-24 Monday-Friday. Optional early registration for second-year students.

30 Thursday.* Registration, including payment of tuition and fees, for first-year students.

31 Friday.* Registration, including payment of tuition and fees, for second-year students.

SEPTEMBER

3 **Monday. Labor Day. Holiday for third- and fourth-year students.**

4 **Tuesday. Academic year begins for first- and second-year students.**

6 Thursday. Last day to file *late* applications for October degrees.

OCTOBER

24 **Wednesday. Award of October degrees.**

NOVEMBER

2 Friday.† Last day to apply or reapply for all degrees to be conferred in January (see December 7).

6 **Tuesday. Election Day. Holiday for first- and second-year students.**

22-23 **Thursday-Friday. Thanksgiving holidays for first-, second- and third-year students.**

DECEMBER

7 Friday. Last day to file *late* applications for January degrees.

**Students allowed to register after the period specified must pay a late fee.*
†Students who apply after this date must pay a late fee.

22 **Saturday, through January 6, 1980, Sunday. Vacation for first-, second- and third-year students.**

JANUARY

11 Friday. First semester ends for first-year students.

14 Monday. Second semester begins for first-year students.

23 **Wednesday. Award of January degrees.**

FEBRUARY

18 **Monday. Washington's Birthday. Holiday for first- and second-year students.**

18 Monday.* Last day to apply or reapply for all degrees to be conferred in May (see April 3).

MARCH

29 **Saturday, through April 6, Sunday. Vacation for second-year students.**

29 **Saturday, through April 13, Sunday. Vacation for first-year students.**

APRIL

3 Thursday. Last day to file *late* applications for May degrees.

9-10 **Wednesday-Thursday. National Boards Part II for third-year students.**

30 Wednesday. Dean's Day for Medical Student Research.

MAY

14 **Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.**

26 **Monday. Memorial Day. Holiday for first-, second, and third-year students.**

31 **Saturday, through June 11, Wednesday. Study period for second-year students. National Boards Part I (Tuesday, June 10 and Wednesday, June 11).**

JUNE

6 Friday. Second semester ends for first-year students.

12 **Thursday, through July 6, Sunday. Vacation for second-year students.**

20 Major Clinical Year concludes for third-year students.

30 Elective curriculum begins for third-year students.

Dates of National Board Exams

Part I	September 5-6, 1979 June 10-11, 1980
Part II	September 25-26, 1979 April 9-10, 1980

**Students who apply after this date must pay a late fee.*

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View of Bard Hall from Riverside Drive

Bard Haven Towers

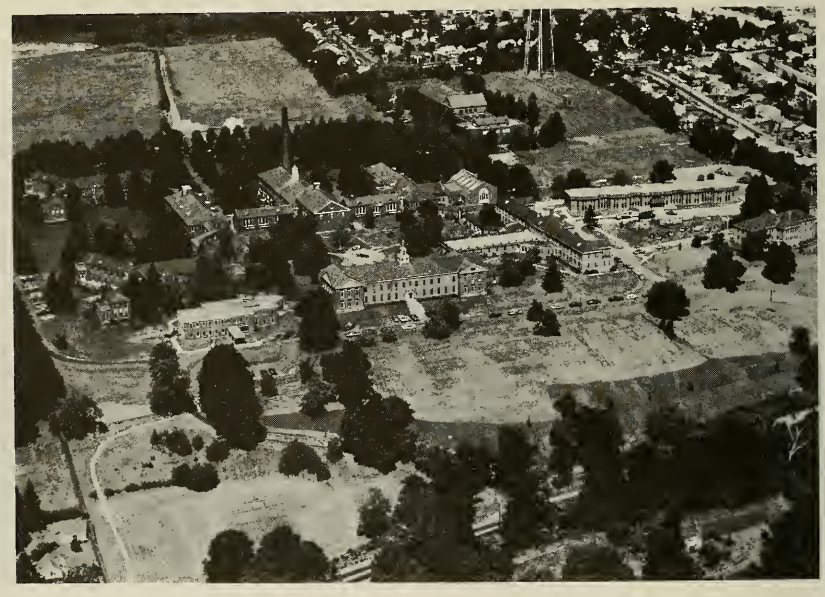
Martin Luther King, Jr., Pavilion, Harlem Hospital Center

St. Luke's Hospital Center

Roosevelt Hospital

Mary Imogene Bassett Hospital

Overlook Hospital



Helen Hayes Hospital

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The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which the physician's knowledge develops.

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

History of the College and University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent affiliation between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Health Sciences Library

The Columbia University Health Sciences Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 335,000 volumes and a staff of 34, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty students, and researchers in the health sciences disciplines. More than 3,000 periodicals are received regularly. An entire floor of the library has been designated as a media center and is equipped with a variety of audiovisual materials. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. A library handbook and other materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of Harvard and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Student memberships in the New York Academy of Medicine Library (at 103rd Street and Fifth Avenue) are available for an annual fee. Applications for membership, which includes borrowing privileges, should be directed to the Academy Library.

Cancer Center/Institute of Cancer Research

The Cancer Research Center was established in 1973. In 1977 it was designated the Cancer Center/Institute of Cancer Research. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's, Roosevelt, Harlem—and Overlook in Summit, New Jersey. The Cancer Center

was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the care of patients with cancer. The Center is charged with the responsibility for research, education, and cancer-patient care by all health professionals.

The Institute of Cancer Research of Columbia University, College of Physicians and Surgeons, was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938. The Institute and Center are fully integrated.

The Center is composed of five operational divisions: Basic Science Research, Clinical Research and Patient Care, Education, Cancer Control, and Administration.

Center for Community Health Systems

The Center for Community Health Systems is an interdisciplinary and interdepartmental health services and health policy research and development center which enlists varied resources of the University, particularly those of the Faculty of Medicine and its affiliated hospitals, in a systematic attack on problems in the organization and delivery of health care, with a predominant, though not exclusive, focus on urban areas.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are under way, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the seventh floor of the Health Sciences Center.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorder,

out-of-wedlock pregnancy, marital and other social problems. The Institute consists of the Center for Reproductive Sciences, including the divisions of reproductive biochemistry, physiology, and reproductive morphology, and the Center for Population and Family Health, which includes the divisions of social and administrative sciences, family life services, clinical evaluation, and sexual behavior.

The office of the Center for Reproductive Sciences is at 630 West 168th Street, and the office of the Center for Population and Family Health is at Floor B-3, 60 Haven Avenue.

Affiliated Hospitals

The Presbyterian Hospital

Founded in 1868, the hospital joined with Columbia's College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,291 beds and 48 bassinets.

The hospital includes all of the individual units described below:

Presbyterian Hospital, the single largest hospital unit, has a total of 480 beds, which includes semiprivate and ward facilities for medical and surgical services, as well as for New York Orthopaedic Hospital, Squier Urological Clinic, and Sloane Hospital for Women.

The New York Orthopaedic Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital. Its capacity is 87 beds.

Squier Urological Clinic has facilities on the tenth floor of the Presbyterian Hospital and on the tenth floor of Babies Hospital. There are 63 beds.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies two floors of the Presbyterian Hospital and one floor in Harkness Pavilion, providing inpatient facilities for 117 adult patients and bassinets for 48 infants.

Harkness Pavilion, erected when the Medical Center was established in 1928, is available for the accommodation of 354 private and semiprivate patients from various services.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies. The capacity of the hospital is 168. An outpatient department is maintained in Vanderbilt Clinic by the attending and house staff of the hospital.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute has a capacity of 237 beds, including 15 added in 1960 for psychiatric patients.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. Its capacity is 52. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the outpatient department for all the wards of all the units of the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 186 beds and a staff of specialists who are all salaried and full time. In 1976 there were 108,303 visits to the Outpatient Department. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 23,000 volumes and about 350 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of nearly 1,100 beds serving Central Harlem and environs, responsible for the care of approximately 400,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is a 150-bed independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. New patient facilities are under construction; the research building has been renovated and an active biomedical engineering unit developed.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 540-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and primary care internal medicine and pediatrics through a program of broad-based clinical experience for graduate physi-

cians. Outreach programs have been pioneered in alcoholism and other addictive illness, home-care-based hospice, and mobile intensive care utilizing paramedics.

St. Luke's Hospital Center

St. Luke's was established in 1850 and has been on Morningside Heights next to the main Columbia campus since 1896. It merged with Woman's Hospital in 1953, and today the hospital complex contains 870 beds, including 45 pediatric beds, 59 obstetric beds, and 50 bassinets. Approximately 23,000 patients are admitted yearly to the four major and eleven specialty services. The attending staff numbers 600 doctors; the house staff consists of 200 interns, residents, and fellows.

St. Luke's has maintained a teaching affiliation with the University since 1947, and in 1971 became a full University hospital. Under the terms of affiliation with Columbia, new members of the medical staff are appointed by the hospital's Board of Trustees only after such members receive appointments as officers of instruction at the College of Physicians and Surgeons of the University.

St. Luke's is recognized as a leader in such fields as heart surgery, kidney transplantation, artificial kidney treatments, and noninvasive diagnosis (ultrasound). The Hospital Center's clinically oriented research projects are involved in such areas as blood diseases, coronary artery disease, gastroenterology, obesity and nutrition (it is the site of the only federally funded obesity research center), pulmonary disease, renal transplant-immunology, and bioengineering. A medical library of 22,000 volumes is an integral part of the Hospital Center. St. Luke's is both a major referral institution and a community hospital. The more than fifty specialty and subspecialty clinics see 50,000 patients yearly (totaling approximately 200,000 visits); the Emergency Room is one of the busiest in Manhattan (75,000 visits annually). The Hospital Center also operates extensive community programs in alcoholism treatment, drug detoxification, and mental health.

The Roosevelt Hospital

The Roosevelt Hospital treated its first patient in 1871. It comprises 595 beds and bassinets. There are about 263,000 outpatient and emergency-room visits annually. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital has been affiliated with the College of Physicians and Surgeons since the early years of the century and in 1971 became a full University hospital. Under the terms of the affiliation with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in September of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, general chemistry, and organic chemistry (including laboratory), covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, appplicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. Students applying for admission must also have taken the Medical College Admission Test in the spring or fall of the year of application. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to the University's Equal Opportunity Office (402 Low Memorial Library, New York, N.Y. 10027, telephone 212-280-3554), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay.

The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above-mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment (1) qualified Vietnam era veterans during the first four years after their discharge and (2) qualified disabled veterans throughout their working life if they have a 30 percent or more disability.

The University's Equal Opportunity Office has also been designated to coordinate the University's compliance activities under each of the programs referred to above.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $25. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and to develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Only a very small number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if a vacancy exists.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been able to admit relatively few individuals either to an entering class or with advanced standing whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. At registration a student provides the information required and pays tuition and fees. The Office of the Registrar, on the first floor of the Black Building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Any who do not now have a number should obtain one from their local Social Security office well in advance of registration.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or

director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. Since, under the University statutes, payment of fees is part of registration, no student's registration is complete until the fees have been paid. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period without the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Conduct

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (Black Building, Room 138) no later than September 14 in the autumn term and January 30 in the spring term. Applications require *(a)* the certification of the Registrar that the student is eligible to audit and *(b)* the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Tuition, the student health service fee, and the health insurance premium are payable in advance and as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (*see* the Academic Calendar) they will not be reduced, and a late fee of $25 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$5,800.00

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1–August 31)

Health service fee	$215.00
Hospital insurance premium	157.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Office of the Registrar, Black Building, Room 138, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees and Late Fees

For admission	$25.00
For late registration: minimum charge	25.00
For late application, or late renewal of application, for a degree	25.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Registrar in writing: failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. Application fees, late fees, and special fees are not refundable.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

Adjustment Schedule

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Registrar, 630 West 168th Street. In the 1979-1980 academic year, the last day to file for an October degree is August 1; for a January degree, November 2; and for a May degree, February 18. A late fee of $25 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 6 for October degrees, December 7 for January degrees, April 3 for May degrees.) Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application. A $25 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above.)

Requests for Transcripts

Transcripts may be requested by writing to the Office of the Registrar, 630 West 168th Street, New York, N.Y. 10032. *Official* transcripts must be sent by the University directly to an official address such as another university, a hospital, a business firm, or a government agency. However, a student may request an unofficial transcript (stamped "Student Copy"). There is a charge of $2 for each transcript requested except for those which are sent between offices of Columbia University. Checks accompanying transcript requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$5,800.00
Health and Hospitalization Insurance Fees	372.00
Books and supplies	650.00
Microscope rental cost and other equipment	450.00

In addition to the educational costs listed above, each first-year student should budget approximately $4,140 to cover housing ($1,375), food ($1,900), clothing, laundry and dry cleaning ($265), and miscellaneous expenses ($600).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for students in the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with a swimming pool, basketball and squash courts, and facilities for other sports.

Room rates at Bard Hall depend on the length of the academic year and the room assignment. Information on the cafeteria service, room application forms, and other details are provided for entering students by the Admissions Office. For further information, write to the Bard Hall Manager, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Tower I on the Medical Center campus. Married or single students may rent apartments in Towers II and III; the rents are higher. Information may be obtained from the Manager, Bard Haven Towers, 100 Haven Avenue, New York, N.Y. 10032.

Financial Aid

All financial aid awards are based on verified need. Each year applicants for financial aid are required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

Upon acceptance to the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state. The Financial Aid Office provides interested students with the necessary information on applications for these programs. Applicants to medical school should consult college premedical offices for information on the competitive New York State Regents Awards.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States or permanent residents (visa status). Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 250 West 57th Street, New York, N.Y. 10019 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. Annually, the Financial Aid Office of the College of Physicians and Surgeons advises students of the availability of this scholarship.

There are a number of scholarship funds administered by the Financial Aid Office of the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ALUMNI A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA AND ABRAHAM PENNER BERNHEIM SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

GEORGE BLUMENTHAL, Jr. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

Dr. HARRY BRITENSTOOL MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

Dr. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

ALONZO CLARK Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

HENRY D. CRUGER Bequest of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DAVID M. DEVENDORF Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

FRANCIS E. DOUGHTY Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

WILLIAM H. HEMINGWAY

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

CHARLES EUGENE HUBER, Sr. Bequest of Francis D. Huber, in memory of his father.

FRANCIS HUBER Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students studying under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber.

ELIZABETH HALL McCULLOGH Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons.

HERBERT D. MANLEY Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH F. SAPHIR MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus's services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, Jr., MEMORIAL Given by Dr. E. E. Stewart, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

HAROLD S. VAUGHAN Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the class of 1945, in memory of their classmate.

WHITING—Dr. FORDYCE B. St. JOHN SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Dr. JAMES LANCELOT WILSON Awarded to a student selected by the College of Physicians and Surgeons.

CLARA AND KRIKOR ZOHRAB Awarded with preference to students of Armenian extraction. Students are eligible to apply through interschool fellowship competition upon recommendation of the financial aid officer.

Gift Funds

CITIBANK MEDICAL SCHOLARSHIP Established by the Citibank. The recipient must have demonstrated need for support and he/she must be a New York State resident.

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees or members of the applicant's immediate family (i.e., mother, father, spouse). Foreign students may borrow from federal or state loan funds upon being granted permanent resident visa status in the United States.

Federal Health Professions Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus $2,500. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 7 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during period of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state that has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s)

for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

National Direct Student Loans. Funds are allocated by the Office of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The total (undergraduate and graduate school loans) available to a student from the NDSL program is $10,000. The current interest rate, payable during the repayment period, is 3 percent on the unpaid principal. Repayment begins nine months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service or during service in the Peace Corps or Volunteers in Service to America (VISTA).

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is $5,000, and the total outstanding loan balance at any one time may not exceed $15,000. Interest may not be in excess of an annual percentage rate of 7 percent. Lending institutions participating in this program can provide further information regarding interest rates. Repayment begins nine to twelve months after the student's studies have been completed or otherwise terminated and is usually scheduled for completion within five to ten years.

Deferment of repayment is permitted to up to three years during the student's service in the military, the Peace Corps, or VISTA.

Other Sources of Loans. The National Education Loan Guarantee Program of the American Medical Association Education and Research Foundation (AMA-ERF) makes possible loans to all medical students, interns, and residents in good standing who are United States citizens, provided they are enrolled in full-time training at an AMA-approved American medical school or hospital and can demonstrate financial need. Medical students must have completed their first semester in order to qualify. The maximum amount that can be borrowed in a twelve-month period (September 1 to August 31) is $2,500. Up to a total of $12,500 may be borrowed over a period of seven years. The minimum loan for any one interim note is $400.

Interest rates have not been set at the time of this printing. Interest charges must be paid in full each year by the student. Payment of principal is deferred during the training period. Prepayment of principal may be made at any time without penalty.

University loan funds are also intended to supplement students' resources. Repayment of these loans is scheduled to begin nine months after graduation and to be completed within ten years (provided that a repayment rate of at least $30 a month is maintained). The interest charge for University loans is 3 percent a year on the outstanding loan balance.

The University has certain named loan funds from which medical students may borrow when monies are available. Included among these are the following funds:

PETER AMAZON Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, Jr. Used for the assistance of needy students in the medical school.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. Gift of George L. Hawkins, Jr., Class of 1941.

B. H. HOMAN, Jr. REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

ROBERT ABBE MACKENZIE Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S, wherever they are in training, or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

JESSIE SMITH NOYES

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in fifteen years; without interest for the first ten years; with 5 percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

JANEWAY PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Dr. HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

EDITH AND DENTON McKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

Dr. HAROLD LEE MEIERHOF MEMORIAL PRIZE Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

NEW YORK ORTHOPEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

Dr. ALFRED STEINER AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

Dr. HAROLD B. STEVELMAN AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

UROLOGY PRIZES Awarded to senior students for the best essays on urological subjects.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of the diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and those who chair the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Fine Arts, Athletics, Community Youth Work, Accessories, Social, and Columbia-Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for

leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Development and Alumni Relations Office

The P&S Development and Alumni Relations Office considers its prime mission to be the fostering and maintenance of cordial relationships between the College of Physicians and Surgeons and its alumni. As such, the office is responsible for the administration of both alumni relations programming and alumni annual fund-raising projects throughout the course of any year.

Historically, alumni served by the office have included all those awarded the M.D. or Med. Sc.D. degrees from the College as well as those awarded the Certificate in Psychoanalytic Medicine. As of May 6, 1978, however, the Alumni Association, by amendment to its Constitution, also conferred automatic *associate member* status upon all faculty of the College; all interns, residents, and visiting fellows with appointments of one year or more at hospitals affiliated with P&S; and all Ph.D. graduates of the Basic Sciences Curricula including Anatomy, Biochemistry, Human Genetics, Microbiology, Pathology, Pharmacology, and Physiology.

The work of the Alumni Association is accomplished through the efforts of the officers and the sixteen standing and *ad hoc* committees, all of whom form the constituency of the P&S Alumni Council; all alumni, of whatever membership status, are encouraged to volunteer for and participate in the work and activities sponsored by these groups.

Restricted revenues raised by the Alumni Association provide funds for a number of fully endowed scholarships at the College of Physicians and Surgeons. Currently, the Alumni Association is also embarked on a long-term project to fund and endow a P&S Alumni Association professorship. Unrestricted revenues raised by the Alumni Association allow the College flexibility in applying funds to areas of greatest need. For example, during the 1977–1978 fiscal year, unrestricted revenues financed a capital expenditure for the Audio/Visual Department, thereby allowing that administrative unit to purchase equipment utilized in support of the College's Continuing Education Program. Routinely, a substantial stipend from unrestricted revenues also goes to the P&S Club, underwriting virtually all of the Club's yearly operating needs.

Among the important functions performed through the P&S Development and Alumni Relations Office is the quarterly publication of the *P&S Journal*. This magazine, cosponsored by the alumni and the medical school, endeavors to speak to the College of Physicians and Surgeons community-at-large. All alumni, faculty, and those involved in postgraduate training at affiliated hospitals receive the *P&S Journal* gratis. It is also free to current students and their parents and to a wide range of other friends and associates of the College.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. As full and equal members of the Student Alumni Relations Committee, students and alumni work together in addressing students' current needs and seeking solutions to their problems.

Information about the Alumni Association and its activities is available from the P&S Development and Alumni Relations Office, 2005-C, Black Building, 630 West 168th Street, New York, N.Y. 10032. Telephone: (212) 694-3498.

The Program of Instruction

The first year curriculum is largely devoted to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses (Abnormal Human Biology, Introduction to the Patient, and Psychiatric Medicine I and II), major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: the First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum

may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss, or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is determined to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass National Board examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of twelve weeks or less.

Summary of Curriculum (for students entering in September 1979)

First Year

SEPTEMBER 4, 1979 to JANUARY 11, 1980. First semester.

JANUARY 14, 1980 to JUNE 6, 1980. Second semester.

Second Year

SEPTEMBER 2, 1980 through JUNE 30, 1981.

Third and Fourth Years

JULY 1, 1981 through APRIL 30, 1983.

Basic Science and Introductory Clinical Courses of the First and Second Years

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastroenterology, Dr. Glickman; Hematology, Dr. Rifkind; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Weinstein; Nephrology, Dr. Al-Awqati; Surgery, Dr. Lo-Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy 101F. Microscopic anatomy
Dr. Nunez and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy 102F. Human anatomy
Dr. Moss and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy 103F. Developmental anatomy
Dr. Pfenninger and departmental staff.
Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F-Microscopic anatomy.*

Biochemistry 101F. Introductory biochemistry
Dr. Gold and departmental staff.
Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics 101S. Introductory clinical genetics
Dr. Krooth and associates.
Lectures emphasizing general principles of genetics and their clinical application.

Medicine 101S. Introduction to the practice of medicine
Drs. Canfield, Marcus, and associates.
Lectures, conferences, and seminars addressing ethical and personal issues relevant to the practice of medicine.

Medicine 102S. Introduction to the patient
Dr. Morris and associates.
A series of interdepartmental presentations and demonstrations followed by an intensive four-week preceptorship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student will learn to take a comprehensive medical history and to perform a complete physical examination.

Microbiology 101F. General microbiology
Dr. Ginsberg and departmental staff.
Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Anatomy-Physiology 106S. Neural science
Drs. Kandel, Kelly, Kupfermann, Rowland, Schwartz, and Spencer.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Nutrition 101F. Introduction to nutrition
Dr. Winick and associates.
Lectures that define the elements of nutrition essential for good health.

Pathology 101F. General pathology
Dr. Branwood and departmental staff.
Lectures, conferences, and laboratory emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems.

Pathology 102S. Systemic pathology
Dr. Branwood and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies to elucidate the pathogenesis of findings in disease.

Pathology 103S. Neuropathology
Dr. Duffy and associates.
Lectures, demonstrations, and microscopic studies of diseases of the nervous system.

Pharmacology 101S. General and special pharmacology
Dr. Kahn and departmental staff.
Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Medicine 105F. Physician-patient relationship
Drs. Hembree, Rosenberg, and associates.
Preceptor sessions emphasizing the central role of the physician-patient relationship in the practice of medicine and the importance of the effects of health care organization and other factors on that relationship.

Physiology 101F. Human physiology
Dr. Nocenti and departmental staff.
Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry 101F. Psychiatric Medicine, I
Dr. Maxmen and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Psychiatry 102S. Psychiatric Medicine, II
Dr. Maxmen and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health 101F. Structure of health care systems
Dr. Rosenberg and associates.
Lectures and seminar groups on the current organization of health care.

Public Health 102F. Epidemiology
Dr. Rush and associates.
Lectures and seminars to present epidemiological principles.

Public Health 103F. Biostatistics
Dr. Fleiss and associates.
Lectures on the basic elements of biostatistics applicable to medicine.

Public Health 104F. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year

Anesthesiology 201. Clinical clerkship in anesthesiology
Dr. Bendixen and staff at the Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannikin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannikin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe indications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis, and treatment of local anesthetic drug toxicity.

Dermatology 201.
Dr. Harber and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Morris and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology 201. Clinical clerkship in neurology
Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology 202. Neurosurgery
Dr. Schlesinger and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Obstetrics and Gynecology 201. Clinical clerkship in obstetrics and gynecology
Dr. Vande Wiele and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Orthopedic Surgery 201. Clinical clerkship in orthopedic surgery
Dr. Garcia and staff at the Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology 201. Clinical clerkship in otolaryngology
Dr. Abramson and staff at the Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics 201. Clinical clerkship in pediatrics
Dr. Katz and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student will develop basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student will learn to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student will also learn to make the basic measurements of physical, neurological and psychosocial growth and development, and to plot and assess the data.

Psychiatry 201. Clinical clerkship in psychiatry
Dr. Sachar and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Downey and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff at the Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery 202. Lectures and demonstrations in surgical pathology
Drs. Fenoglio and Lane and staff at the Presbyterian Hospital.
Included in *Surgery 201.*

Urology 201. Clinical clerkship in urology
Dr. Lattimer and staff.
During the clinical clerkship in urology students will learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients will be evaluated. By knowing diagnostic methods unique to urology, students will be able to formulate appropriate diagnostic and therapeutic plans.

Special Programs

M.D.-Ph.D. Program

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and Ph.D. degrees. This

program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain the Ph.D. degree in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program. The program is supported by traineeships from the National Institutes of Health.

Applicants interested in the M.D.-Ph.D. program should write for further information and application forms to:

Dr. David Schachter
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Physiology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the health care delivery system and the technological, social, and political forces that contribute to the problems and patterns of illness, medical care, and delivery of services. They also develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns will differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student will use vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student will register concurrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degree may be awarded simultaneously at the end of the fourth year or separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y., 10032, or the Director's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Programs in Physical Therapy and Occupational Therapy

Educational programs are offered by the Department of Rehabilitation Medicine to students who have already earned a bachelor's degree. They may apply for admission to a fourteen-month program leading to a professional certificate in physical therapy or to a two-year program leading to the Master of Science degree in occupational therapy. Details are given in the University bulletin, *Programs in Physical Therapy and Occupational Therapy.*

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or its equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director, Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Clinical Genetics

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Committee on Clinical Genetic Services, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics, sponsored and directed by the Committee, offers

clinical fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Committee on Clinical Genetic Services, Department of Human Genetics and Development, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

University Program of General Education

The Program of General Education offers a series of courses designed to bring together various scholarly and professional disciplines to explore matters of lasting human concern and distinct contemporary importance. The Program includes both experimental and time-tested forms of general education. As an outgrowth of Columbia's long experience in this area, the Program is based on the premise that general education can parallel disciplinary training in the graduate as well as undergraduate years. The Program offers intermediate and advanced courses that supplement such general introductions as Contemporary Civilization, Humanities A and B, Oriental Civilizations, and Oriental Humanities.

The Program's courses and seminars are addressed to both the nonspecialist and the specialist who is willing to venture beyond the conventional disciplinary boundaries. Within the normal limits of appropriate class size, and depending upon the level of the course, most courses are open to qualified students from all divisions of the University. Students should check with their department or school if there are questions about receiving credit toward a major or a degree.

A complete listing of courses offered under the Program will be published as a supplement to the University bulletins in the late summer of 1979. It will include courses not otherwise announced in the bulletins. For information, contact the General Education Program, 1513 International Affairs Building, Columbia University, New York, N.Y. 10027. Telephone: (212) 280-2208.

During the 1979–1980 academic year, the Health Sciences Division of the University will conduct a General Education Seminar on the interdisciplinary analysis and explication of value issues in health sciences education, research, and service as related to behavior modification, neonatology, reproductive medicine, and other topics. Seminars in each of these topics meet in the autumn and spring terms and are open to students from any division of the University with permission of a faculty participant. For information, call Dr. Arthur Caplan (694-6883) or the General Education Office (280-2208).

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be most meritorious.

Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with the resident's specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of one year of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of a comprehensive and an oral examination, and submission of a dissertation.

Departments of Instruction

Listed are only those faculty appointments and promotions approved by May 15, 1979.

The designation "also" is used with the name of an individual holding a joint appointment in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in." In either case, the name appears in both departmental lists.

Anatomy

Professor and Chairman

Michael D. Gershon *B.A., Cornell, 1958; M.D., 1963*

Professors

Charles A. Ely. *B.A., Washington and Jefferson, 1946; Ph.D., Wisconsin, 1949*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
Virginia Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Adjunct Professor

Manfred Otto Nahmmacher. *Ph.D., Giessen (Germany), 1960*

Associate Professors

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Karl H. Pfenninger. *M.D., Zurich, 1971*

Associate Professor of Clinical Pathology

Arline D. Deitch. *B.A., Brooklyn, 1944; M.A., Columbia, 1946; M.D., 1954*

Adjunct Associate Professor

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Texas, 1956*

Assistant Professors

Richard Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*
Halina Den (in Neurology). *B.S., Frankfurt, 1949; M.S., New York University, 1954; Ph.D., Michigan, 1958*
Abraham B. Eastwood (in Neurology). *B.S., Muhlenberg, 1965; M.S., Lehigh, 1967; Ph.D., 1971*
Alan R. Gintzler. *B.A., Hunter, 1969; Ph.D., New York University, 1974*
James P. Kelly. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*

Daniel M. Linkie (in Obstetrics and Gynecology). *B.S., State University of New York (Downstate), 1962; M.S., State University of New York (Albany), 1963; Ph.D., Michigan, 1971*
Marie Maylie-Pfenninger. *Baccalaureate, Algiers, 1960; L. ès Sc., Marseilles, 1963; Docteur de Specialité, 1967; Ph.D., 1972*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*
Elizabeth Thompson. *B.A., Radcliffe, 1964; Ph.D., Cornell, 1971*

RESEARCH ASSOCIATES
Julia R. Currie, Ph.D.
Cheryl Dreyfus, Ph.D.
Taube Pearl Rothman, Ph.D.

INSTRUCTOR
Sharon C. Colacino, Ph.D.

STAFF ASSOCIATES
Gladys Pinczuk, Ph.D.
Diana L. Sherman, B.S.

Anesthesiology

Professor and Chairman

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

Professors

Mieczyslaw Finster (also Obstetrics and Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (also Pharmacology). *M.B., National Central (Nanking), 1944*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettsyburg, 1943; M.D., Jefferson, 1947*
Jacob S. Israel. *B.A., Columbia, 1945; M.D., New York University, 1949*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Associate Professors

Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Allen I. Hyman (also Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Associate Professor of Clinical Anesthesiology

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

Assistant Professors

Keith J. Bernstein *B.A., New York University, 1968; M.D., State University of New York, (Downstate), 1974*
Richard Z.Y. Chen. *M.D., National Taiwan, 1966*
Foun-Chung Fan. *M.D., Taipei Medical College (Taiwan), 1972*
Arthur Donald Finck. *B.S., Lafayette, 1968; M.D., Columbia, 1972*
Yakub A. Gangat. *B.S., Bombay, 1961; M.D., Gujarat, 1967*
John A. Holzer. *B.A., California (Berkeley), 1968; M.D., 1972*
Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Norman M. Mazza. *B.E.E., Rensselaer Polytechnic Institute, 1964; M.D., New York Medical College, 1972*
Leila M. Pang (also Pediatrics). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1964*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
Stanley H. Rosenbaum (also Medicine). *B.A., Columbia, 1967; M.A., Harvard, 1969; M.D., Cornell, 1973*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Yvonne Vulliemoz. *M.S., Lausanne, 1956; Ph.D., Paris, 1969*
Sook Young Woo. *B.S., Ewha Women's University (Seoul), 1968; M.D., 1972*
Jen-Tieng Wung. *M.D., Taipei Medical College, 1956*

Assistant Professors of Clinical Anesthesiology

Ana Maria Lobo Antunes. *M.D., Lisbon Faculty of Medicine, 1967*
Dorothy A. Black. *B.A., Rutgers, 1957; M.A. Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Kathryn A. W. Cozine. *M.D., Johns Hopkins, 1961*
Alber Faltas. *M.D., Kasr-El-Ainy Medical School (Egypt), 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
John T. Herbert. *B.A., Columbia, 1969; M.D., Columbia, 1973*
Marlise A. Ogilvie-Meier. *B.S., Lausanne, 1963; M.D., Zurich, 1969*
Kevin V. Sanborn. *B.S., Manhattan, 1969; M.D., New York University, 1973*
Medhat Riad Wassef. *M.B., B.Ch., Cairo, 1957*
Gerald S. Weinberger. *M.D., New York University, 1948*
Marcelle M. Willock. *B.A., New Rochelle, 1958; M.D., Howard, 1962*
Joseph Chuan-Shih Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

RESEARCH ASSOCIATES
Salha S. Daniel, Ph.D.
Mariagnes Verosky, B.A.
Alvin Wald, Ph.D.

INSTRUCTOR IN CLINICAL ANESTHESIOLOGY
Ina Lieberman, M.D.
Richard S. Mega, M.D.

STAFF ASSOCIATE
Carol Pantuck, B.A.

At Mary Imogene Bassett Hospital

Assistant Clinical Professor

William F. Karl. *B.A., Cornell, 1947; M.D., 1951*

At Harlem Hospital

Associate Professor of Clinical Anesthesiology

Herbert G. Cave. *M.D., Howard, 1947*

Assistant Professors of Clinical Anesthesiology

Elmer S. Foster. *B.S., College of the City of New York, 1952; M.D., Brussels, 1959*
Jean B.M. Gilot. *B.S., Lycée Jamel (Haiti) 1952; M.D., Medical School of Haiti, 1958*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycée T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
William M. Smith, *B.A., Michigan, 1954; M.D., Zurich, 1966*
Madisetti Swamy. *M.B., B.S., Osmania (India), 1954*
J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1960*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

Assistant Clinical Professors

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

At Overlook Hospital

Assistant Clinical Professors

Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*
Mary Louise White. *B.S., Maryland, 1943; M.D., 1945*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Sami A.M. Abadir, M.D.
Jane deV. Stark, M.D.
Carol E. Zimmerman, M.D.

At Roosevelt Hospital

Assistant Clinical Professor

Ronald A. Andree. *B.A., Miami (Ohio), 1955; M.D., Case Western Reserve, 1959*

ASSOCIATE IN CLINICAL ANESTHESIOLOGY
Guglielmina Bettini, M.D.

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Robert F. Altschuler, M.D.

INSTRUCTORS (*continued*)
Anselma L. Canlas, M.D.
Han Chiang Lee, M.D.
Ignacia U. Ngo, M.D.
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Hamilton Southworth, M.D.
Alfred Steiner, M.D.

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Marcia B. Bull, M.D.
Edward E. Fischel, M.D.
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Eric S. Lichtenstein, M.D.
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Allan G. Ramsay. *B.A., Western Ontario, 1947; M.D., 1948*
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David W. Vaules. *B.A., Dartmouth, 1960; B.M.S., 1961; M.D., Rochester, 1963*

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Alan J. Kozak, M.D.
Don V. Lewis, M.D.
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William H. Ramsey, M.D.
Richard E. Reese, M.D.
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Professors

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Clinical Professors

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John B. Cromie. *M.D., Belfast (Northern Ireland), 1949*
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Raynard J. McDonald, M.D.
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Kopel Burk, M.D.
Andrew Coronato, Jr., M.D.
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Myron C. Patterson. *B.A., Columbia, 1939; M.D., 1943*
Robert B. Tator. *M.D., Columbia, 1948*
Gerald Weintraub. *B.A., New York University, 1950; M.D., 1954*

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Peter R. Holt. *B.Sc., Tolington, 1949; M.B.,B.S., London, 1954*
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Professors of Clinical Medicine

A.L. Loomis Bell. *B.S., Wesleyan, 1944; M.D., Harvard, 1947*
William S. Clark. *B.S., Dayton, M.D., St. Louis, 1938*

Clinical Professor

Miles J. Schwartz. *B.S., Queens, 1947; M.D., New York University, 1951*

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Robert B. Case. *B.A., Ohio Wesleyan, 1943; M.D., Columbia, 1958*
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Associate Professors of Clinical Medicine

Harvey G. Kemp. *B.A., Oklahoma, 1955; M.D., Johns Hopkins, 1959*
Richard N. Pierson, Jr. *B.A., Princeton, 1951; M.D., Columbia, 1955*

Associate Clinical Professors

C. Redington Barrett. *B.A., Yale, 1955; M.D., Columbia, 1959*
Jonas M. Goldstone. *B.A., Harvard, 1951; M.D., 1955*
Myron C. Wright. *B.A., Dartmouth, 1937; M.D., New York University, 1940*

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Assistant Professors

Richard Collens. *B.S., Massachusetts Institute of Technology, 1959; M.D., New York Medical College, 1966*
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Judith Axelrod. *B.S., Wellesley, 1963; M.D., Cornell, 1967*
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Carlton Boxhill, M.D.
Jeffrey M. Brensilver, M.D.
Jean B. Case, M.D.
Paul J. Chrzanowski, M.D.
Edward W.D. Colt, M.D.
Marlin Jay Frankel, M.D.
Francis G. Geer, M.D.
Richard L. Geltman, M.D.
Maurice F. Goodbody, M.D.
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Eric Andreae, M.D.
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Hugh C. Davidson, M.D.
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ASSISTANT IN CLINICAL MEDICINE
Dennis G. Huskins, M.D.

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Katherine P. Porikos, Ph.D.
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LECTURER
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Microbiology

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Harold S. Ginsberg. *B.A., Duke, 1937; M.D., Tulane, 1941*

Professors

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David H. Figurski. *B.S., Pittsburgh, 1969; Ph.D. Rochester, 1974*
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Neurological Surgery

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James W. Correll. *B.A., Brown, 1941; M.D., Cornell, 1944*
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Peter W. Carmel. *B.A., Chicago, 1956; M.D., New York University, 1960*
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Assistant Professors of Clinical Neurological Surgery

Joao Lobo Antunes. *M.D., Lisbon, 1968*
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Neurology

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William G. Johnson. *B.A., Princeton, 1963; M.D., Columbia, 1967*
Masataki Kawai. *Ph.D., Princeton, 1971*
James R. Miller. *B.A., Amherst, 1960. M.D., New York University, 1964*
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Robert L. S. Boothe, M.D.
Abraham C. Kovarsky, M.D.

At Roosevelt Hospital

Assistant Clinical Professor

Andrew H. Patterson. *M.D., Columbia, 1958*

ASSOCIATES IN CLINICAL ORTHOPEDIC SURGERY
William G. Hamilton, M.D.
James C. Parkes II, M.D.
Joel E. Rothermel, M.D.

INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY
Luther F. Warren, M.D.

At St. Luke's Hospital

Professor of Clinical Orthopedic Surgery

Joseph W. Fielding. *M.D., Toronto, 1946*

Associate Clinical Professor

Robert E. Zickel. *B.A., Cornell, 1952; M.D., 1958*

Assistant Clinical Professors

Ronald M. Match. *B.A., Hofstra, 1953; M.D., Jefferson, 1957*
George L. Unis. *B.A., New York University, 1960; M.D., New Jersey College of Medicine and Dentistry, 1975*

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY
Richard J. Cea, M.D.
Sanford A. Ratzan, M.D.

Otolaryngology

Professor and Chairman

Maxwell Abramson. *B.A., Wesleyan, 1957; M.D., Union (Albany), 1961*

At Presbyterian Hospital

Professor

Juergen Tonndorf. *M.D., Kiel (Germany), 1938; Ph.D., Heidelberg, 1945*

Professors of Clinical Otolaryngology

Robert M. Hui. *B.A., Southern California, 1943; M.D., 1946*
Robin M. Rankow. *B.S., College of the City of New York, 1935; D.D.S., Columbia, 1940; M.D., Rochester, 1950*

Professor of Clinical Audiology and Speech Pathology

Thomas H. Fay. *B.A., Florida, 1949; M.A., Columbia, 1950; Ph.D., Illinois, 1958*

Associate Professor of Auditory Biophysics

Shyam M. Khanna. *B.Sc., Lucknow (India), 1951; D.R.E., St. Xavier College (Bombay), 1954; Ph.D., City College, 1970*

Associate Clinical Professors

Lawrence Savetsky. *B.A., New York University, 1951; M.D., State University of New York (Downstate), 1955*
Malcolm H. Schvey. *B.A., Lehigh, 1947; M.A., Columbia, 1950; M.D., Amsterdam, 1956*

Assistant Professor

Andrew Blitzer (also Oral Surgery). *B.A., Adelphi, 1966; D.D.S., Columbia, 1970; M.D., Mt. Sinai School of Medicine (New York), 1973*

Assistant Professor of Biochemical Otolaryngology

Cheng Chun Huang. *B.S., Taiwan, 1963; M.S., Vanderbilt, 1966; Ph.D., Iowa, 1970*

Assistant Professor of Clinical Otolaryngology

Frank V. Mignogna. *B.A., Princeton, 1961; M.D., New Jersey College of Medicine and Dentistry, 1965*

Assistant Clinical Professors

Raymond M. Cole. *B.S., Ohio State, 1952; M.A., 1953; M.D., Cincinnati, 1957*
Robert C. Eberle. *B.S., Northwestern 1951; M.D., 1954*
John D. Piro (Prosthetics). *B.A., Fordham, 1943; D.D.S., Columbia, 1946*

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY
Milton Ivker, M.D.
Arthur B. Lacher, M.D.
Richard S. Mega, M.D.
John Palesty, M.D.
Lawrence J. Pizzo, M.D.

INSTRUCTORS (*continued*)
Nicholas D. Pontilena, M.D.
Raymond B. Strauss, M.D.
Peter D. Westerhoff, M.D.
Carl Wiesenthal, M.D.
Howard D. Zipper, M.D.

At Harlem Hospital

Associate Clinical Professor

Errol. A. Thompson. *M.B., University College (Dublin), 1936*

Assistant Clinical Professor

Ransford C. Newman. *M.B.,B.S., London, 1960; F.R.C.S., Edinburgh, 1968*

At Roosevelt Hospital

Associate Clinical Professor

John S. Lewis. *M.D., Alberta (Canada), 1943*

INSTRUCTORS IN CLINICAL PATHOLOGY
Arshad H. Amjad, M.D.
Maria Aramburu, M.D.
Tay Bong Lee, M.D.

At St. Luke's Hospital

Associate Clinical Professor

Stanley Whitfield. *Certificate, Harris Academy, Dundee, 1940; M.B., Ch.B., St. Andrew's University Medical School, 1946*

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY
Neville W. Carmical, M.D.
Mauriciu Rodescu, M.D.

Pathology

Francis Delafield Professor and Chairman

Donald W. King. *M.D., Syracuse, 1949*

At Presbyterian Hospital

Professors

Richard Axel (also Biochemistry). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*
William A. Blanc. *B.A., Geneva, 1940; M.D., 1947; Ph.D., 1952*
Paul Ellner (also Microbiology). *M.S., Southern California, 1952; Ph.D., Maryland, 1956*
S. Raymond Gambino. *B.S., Antioch, 1948; M.D., Rochester, 1952*
Gabriel C. Godman (also Microbiology). *B.A., New York University, 1941; M.D., 1944*
Conrad L. Pirani. *B.A., Johns Hopkins, 1954; M.D., Rochester, 1958*
Ralph M. Richart. *B.A., Johns Hopkins, 1954; M.D. Rochester, 1958*
Virginia Tennyson (also Anatomy). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Professor of Microbiology

Henry J. Vogel. *BS., London, 1939; M.S., New York University, 1941; Ph.D., 1949*

Professors of Neuropathology

Phillip E. Duffy. *B.A., Columbia, 1943; M.D., 1947*
Leon Roizin (in Psychiatry). *B.A., State Lyceum (Bessarabia), 1930; M.D., Royal University (Milan), 1936*

Professor of Surgical Pathology

Nathan Lane. *B.A., Columbia, 1943; M.D., 1945*

Professors of Clinical Pathology

Arthur W. Branwood. *M.B., Ch.B., Edinburgh, 1942; M.D., 1948*
Austin D. Johnston (in Orthopedic Surgery). *B.A., Columbia, 1945; M.D., 1947*
Lewis Shapiro (also Dermatology). *B.A., Duke, 1948; M.D., 1952*

Adjunct Professors

Robert V. Hutter. *B.A., State University of New York (Syracuse), 1950; M.D., 1954; M.A., Yale, 1968*
Harry L. Ioachim. *M.D., Bucharest, 1949*
George D. Lumb. *M.D., Royal College of Physicians, 1946*
Sidney Pestka. *B.A., Princeton, 1957; M.D., Pennsylvania, 1961*

Clinical Professors

John G. Gorman. *M.B., B.S., Melbourne, 1953*
Victor Herbert. *B.S., Columbia, 1948; M.D., 1952*
Pablo Rubinstein. *M.D., Chile, 1962*
Sheldon C. Sommers. *M.D., Harvard, 1941*
Bernard M. Wagner. *M.S., Hahnemann, 1949*

Clinical Professor of Oral Pathology

Melvin N. Blake. *D.D.S., New York University, 1955*

Associate Professors

Cecilia M. Fenoglio. *B.S., St. Elizabeth, 1965; M.D., Georgetown, 1969*
John J. Fenoglio, Jr. *B.A., Harvard, 1965; M.D., Georgetown, 1969*
John F. Nicholson (also Pediatrics). *B.S., Vanderbilt, 1955; M.D., 1958*
Nicole Suciu-Foca (in Surgery). *B.S., Bucharest (Rumania), 1959; M.S., 1960; Ph.D., 1965*

Associate Professor of Comparative Pathology

Ross M. Grey. *D.V.M., Alabama Polytechnic Institute, 1945*

Associate Professor of Dentistry

David J. Zegarelli. *B.A., Columbia, 1965; D.D.S., 1969*

Associate Professors of Neuropathology

Lester M. Geller. *B.A., Cornell, 1947; M.A., Michigan State, 1948; Ph.D., New York University, 1953*
Mavis Kaufman (in Psychiatry). *M.D., New York Medical College, 1944*

Associate Professor of Clinical Neuropathology

Richard F. Defendini. *B.A., Michigan, 1948; M.A., 1952; M.D., Rochester, 1961*

Associate Professors of Clinical Pathology

Carmia Borek (in Radiology). *B.S., M.S., Ph.D., Weitzmann Institute* (Israel), *1967*
Arline D. Deitch (in Anatomy). *B.A., Brooklyn, 1944; M.A., Columbia, 1946; M.D., 1954*

Reba A. Goodman. *B.A., Indiana, 1949; M.A., Columbia, 1952; Ph.D., 1955*
Mary E. King. *B.A., Smith, 1947; M.D., Columbia, 1951*
Myron Tannenbaum (in Urology). *B.S., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*
Ruth H. Vogel. *Ph.D., New York University, 1958*

Associate Professor of Clinical Pediatric Pathology

H. Joachim Wigger. *M.D., Hamburg, 1954*

Associate Professors of Clinical Surgical Pathology

Karl Perzin. *B.A., Columbia, 1954; M.D., 1958*
Marianne Wolff. *B.A., Hunter, 1948; M.D., Columbia, 1952*

Adjunct Associate Professors

Ernest Baden. *M.A., Sorbonne, 1946; D.D.S., New York University, 1950; M.D., Geneva, 1962*
M. Richard Pachter. *M.D., Zurich, 1956*
William Pollack. *M.S., Rutgers, 1950; Ph.D., 1964*
Robert R. Rickert. *B.A., Michigan, 1958; M.D., Johns Hopkins, 1962*
Harry H. Stumpf. *B.A., New York University, 1947; M.D., State University of New York (Downstate), 1951*
John A. Terzakis. *B.A., Columbia, 1957; M.D., New York University, 1961*
Kaity Yannopoulos. *M.D., Greece, 1954*
Frederick T. Zugibe. *B.S., St. Francis, 1951; M.S., Chicago, 1959; Ph.D., 1960*

Associate Clinical Professors

Irwin A. Almenoff. *B.S., College of the City of New York, 1948; M.D., Cornell, 1952*
Daniel W. Benninghoff. *B.A., Yale, 1949; M.D., Columbia, 1953*
Donald E. Brown. *M.D., Harvard, 1943*
John M. Budinger. *B.S., Northwestern, 1950; M.D., 1954*
David N. Silvers (also Dermatology). *A.B., Haverford, 1964; M.D., Duke, 1968*
Stanley Simbonis. *B.S., Yale, 1953; M.D., 1957*
Harold J. Sobel. *B.A., Brooklyn, 1950; M.D., Chicago Medical School, 1954*
Richard L. Swarm. *B.A., Washington (St. Louis), 1949; M.D., 1950*

Assistant Professors

Larry I. Crawshaw (also Rehabilitation Medicine).
Seth Goldberg. *B.S., Massachusetts Institute of Technology, 1966; B.A., California, 1964; M.D. State University of New York (Downstate), 1970*
Michael N. Koss. *B.A., Columbia, 1965; M.D., Stanford, 1970*
Daniel M. Knowles. *B.A., Bridgeport, 1969; M.D., Chicago, 1973*
Ricardo Mesa-Tejada. *B.S., Manhattan, 1964; M.D., Madrid, 1970*
Armand Miranda. *B.S., Columbia, 1969; Ph.D., 1973*
Fred G. Silva II. *M.D., Oklahoma, 1972*
David J. Zegarelli (also Dental and Oral Surgery). *B.A., Columbia, 1965; D.D.S., 1969*

Assistant Professor of Neuropathology

Arthur P. Hays. *B.A., Dartmouth, 1962; B. Med. Sci., 1963; M.D., Colorado, 1966*

Assistant Professor of Clinical Neuropathology

Herbert Barden. *B.S., Brooklyn, 1952; M.S., New York University, 1960; Ph.D., 1964*

Assistant Professors of Clinical Pathology

Thomas A. Blumenfeld. *A.A., North Carolina, 1960; M.D., Tennessee, 1964*
Kenneth Button. *B.A., Indiana, 1966; M.D., 1970*
Thomas M. Fasy. *B.S., St. Joseph's, 1963; M.D., Pennsylvania, 1968*
Robert Galen. *B.A., Boston, 1966; M.D., 1970*
Mary M. L. Lee. *A.B., Hunter, 1963; M.S., Michigan, 1964; Ph.D., Columbia, 1972*
Gerda Nette. *B.S., Columbia, 1968; Ph.D., 1973*
Michael Pesce. *B.S., St. Johns, 1967; Ph.D., 1971*
Philip Tomashefsy (in Urology). *Ph.D., New York University, 1969*
Nicholas J. Willson. *B.S., Saint Peter's, 1959; M.D., Seton Hall, 1963*

Adjunct Assistant Professors

Solange G. Abunassar. *M.D., American (Beirut), 1968*
Majid Ali. *M.B., B.S., Punjab (India), 1963*
Paul Bachner. *B.A., College of the City of New York, 1959; M.D., Columbia, 1963*
Harry Woodson Carter. *M.D., Harvard, 1957*
Larry E. Douglass. *B.A., Washington (St. Louis), 1959; M.D., Vanderbilt, 1960*
Howard B. Goldstein. *B.A., Colgate, 1955; M.D., Albany Medical College, 1959*
Arthur I. Hurvitz. *D.V.M., Michigan State, 1964; Ph.D., California (Davis), 1967*
Catherine Kambolis. *M.D., Athens, 1955*
Paul A. Krieger. *B.S., City College, 1967; M.D., New York Medical College, 1971*
Basil Moumgis. *M.D., Pittsburgh, 1949*
Robert D. Newman. *B.S., California (Los Angeles), 1958; M.D., 1962*
Joseph E. O'Brien. *B.A., Columbia, 1957; M.D., State University of New York (Downstate), 1961*
Edwarda Rorat. *M.D., Stettin (Poland), 1959*
Daniel R. Weiss. *B.S., Queens, 1950; M.D., New York Universtiy, 1954*

Assistant Clinical Professors

Giles G. Allard. *B.A., Montreal, 1944; M.D., Laval, 1950*
Lucretia Allen. *B.A., New York University, 1948; M.D., State University of New York (Downstate), 1952*
Ada B. DeChabon. *B.S., Liceo Senoritas (South America), 1949; M.D., Buenos Aires, 1957*
Stefan E. Epstein. *B.A., Columbia, 1956; M.D., State University of New York (Buffalo), 1960*
Hiroshi Nakazawa. *M.D., Keio (Tokyo), 1958*
Henry G. Schriever. *B.A., Vermont, 1956; M.D., New York Medical College, 1960*
Ralph W. Snyder. *B.S., McGill, 1951; M.D., 1953*

ASSOCIATES IN CLINICAL PATHOLOGY
May Parisien, M.D.
Heidrun Zweitnig-Rotterdam, M.D.

RESEARCH ASSOCIATES
Mary Parshley, Ph.D.
Moshe Rosen, Ph.D.

INSTRUCTORS IN CLINICAL PATHOLOGY
Marguerite M. Duby, M.D.
Milagros Ona-Sarino, M.D.
Elena Zegarelli-Schmidt, Ph.D.

STAFF ASSOCIATES
Mary C. Moran, Ph.D.
Tuan Duc Pham, Ph.D.

SPECIAL LECTURERS
Lester R. Cahn, D.D.S.
David Cowen, M.D.
C. Zent Garber, M.D.
Abner Wolf, M.D.

LECTURERS
Michael Baden, M.D.
Hyman Donnenfeld, M.D.
Janis F. Klavins, M.D.
David Spain, M.D.

At Mary Imogene Bassett Hospital

Clinical Professor

Clinton Van Z. Hawn. *B.A., Williams, 1937; M.D., Harvard, 1941*

Associate Clinical Professor

Charles A. Ashley. *B.A., Cornell, 1944; M.D., 1947; M.S., Illinois, 1951*

ASSOCIATE IN CLINICAL PATHOLOGY
Harlan D. Alpern, M.D.

INSTRUCTOR IN CLINICAL PATHOLOGY
Charles A. Ellsworth, M.D.

At Harlem Hospital

Professor

Jack W. C. Hagstrom. *B.A., Amherst, 1955; M.D., Cornell, 1959*

Professor of Clinical Pathology

Theophilus Roberts. *M.D., Meharry, 1951*

Associate Clinical Professors

Prem Chauhan. *F. Sc. Med., Punjab (India), 1942; M.D., B.S., 1948*
Carlos Navarro. *B.S., National University (Mexico), 1947; M.D., 1955*
Angus C. Sampath (in Microbiology). *D. Sc., Strasbourg, 1966*

Assistant Professor of Medicine

Clayton L. Natta. *B.A., McMaster (Ontario), 1957; M.D., Toronto, 1961*

Assistant Professor of Clinical Pathology

Mathieu A. Seide. *M.D., Port-Au-Prince (Haiti), 1960*

INSTRUCTORS IN CLINICAL PATHOLOGY
Luritz C. Creque, M.D.
Louys Thomas, M.D.
Noel N. Weekes, M.D.

At Overlook Hospital

Assistant Clinical Professors

Anthony Marchand. *B.A., Connecticut, 1966; M.D., Duke, 1970*
Joel A. Roth. *B.A., Brooklyn, 1964; M.D., State University of New York (Downstate), 1968*

ASSOCIATE IN CLINICAL PATHOLOGY
Frederick van Lente, M.D.

At Roosevelt Hospital

Clinical Professor

Rudolf Garret. *M.D., Poland, 1939*

Associate Clinical Professors

John Y. Kiyasu. *B.A., California (Berkeley), 1951; Ph.D., 1955*
Louise L. Phillips. *B.S., William and Mary, 1934; M.D., Columbia, 1940; Ph.D., 1950*

Assistant Clinical Professors

Lazarevic Bozidar. *M.D., Belgrade, 1956*
John J. Di Re. *B.S., McGill, 1953; M.D., George Washington, 1957*
Martin S. Krumerman. *B.A., New York University, 1961; M.D., 1965*
Maria A. Skerlavy. *M.D., Buenos Aires, 1962*

INSTRUCTOR IN CLINICAL PATHOLOGY
Vijai Katatikarn, M.D.

At St. Luke's Hospital

Professor of Clinical Surgical Pathology

Robert Pascal. *B.A., Columbia, 1958; M.D., 1962*

Associate Professor of Clinical Pathology

Stephen F. Ryan. *M.D., Colorado, 1961*

Associate Clinical Professor

Artemis D. Nash. *B.A., Smith, 1949; M.D. Columbia 1953*

Assistant Clinical Professor

Harold P. Gaetz. *B.S., McGill, 1953; M.D., 1958*

INSTRUCTORS IN CLINICAL PATHOLOGY
Petra Elena P. Banogon, M.D.
Corazon S. Sian, M.D.
Monica Chao Yang, M.D.

Assistant Professor

Deng Fong Liau. *M.Sc., McGill, 1968; Ph.D., 1971*

Assistant Professor of Clinical Pathology

Derek Englander. *M.D., Royal College (London), 1963*

Pediatrics

Reuben S. Carpentier Professor and Chairman

Michael Katz (also Public Health). *B.A., Pennsylvania, 1949; M.D., State University of New York (Downstate), 1956; M.S., Columbia, 1963*

At Presbyterian Hospital

Professors

Arthur D. Bloom (also Human Genetics and Development). *B.A., Harvard, 1956; M.D., New York University, 1960*
Ralph Dell. *B.A., Pomona, 1957; M.D., Pennsylvania, 1961*
Welton M. Gersony. *B.A., Syracuse, 1954; M.D., State University of New York (Upstate), 1958*
L. Stanley James (also Obstetrics and Gynecology). *M.D., Otago (New Zealand), 1948*
Robert B. Mellins. *B.A., Columbia, 1948; M.D., Johns Hopkins, 1952*
Sergio Piomelli. *B.A., Liceo Sannazzaro (Naples), 1948; M.D., Naples, 1954*
Myron Winick (Williams Professor and Director of Institute of Human Nutrition). *B.A., Columbia, 1951; M.S., Illinois, 1952; M.D., State University of New York (Downstate), 1956*
Robert W. Winters. *B.A., Indiana, 1948; M.D., Yale, 1952*
James A Wolff. *B.A., Harvard, 1935; M.D., New York University, 1940*

Professors of Clinical Pediatrics

Abe Chutorian (also Neurology). *B.A., Manitoba, 1949; B.S., 1952; M.D., 1957*
Arnold R. Gold (also Neurology). *B.A., Texas, 1947; M.S., Florida, 1949; M.D., Lausanne, 1950*
Sylvia P. Griffiths. *B.A., Hunter, 1944; M.D., Yale, 1948*
Niels L. Low (also Neurology). *M.D., South Carolina, 1940*

Professor of Clinical Psychiatry

H. Donald Dunton. *M.D., Rochester, 1945*

Clinical Professor

David Shaffer (also Psychiatry). *M.D., London, 1961*

Clinical Professors of Pediatric Psychology

Edmund W. Gordon. *B.S., Howard, 1942; B.D., 1945; M.A., American, 1950; Ed.D., Columbia, 1957*
Michael Lewis. *B.A., Pennsylvania, 1958; Ph.D., 1962*

Associate Professors

Jo Anne Brasel (in Institute of Human Nutrition). *B.A., Colorado, 1956; M.D., 1959*
Nicholas Cunningham (also Public Health). *B.A., Harvard, 1950; M.D., Johns Hopkins, 1955*
William C. Heird. *B.S., Maryville, 1958; M.S. Vanderbilt, 1963; M.D., 1964*
Allen I. Hyman (also Anesthesiology). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Ehud Krongrad. *M.D., Hebrew (Jerusalem), 1965*
Gilbert W. Mellin. *B.S., Bethany, 1945; M.D., Johns Hopkins, 1949*
Akira Morishima. *M.D., Keio (Japan), 1954; Ph.D., 1961*
John F. Nicholson (also Pathology). *B.A., Vanderbilt, 1955; M.D., 1958*
Michael R. Rosen (also Pharmacology). *B.A., Wesleyan, 1960; M.D., State University of New York (Downstate), 1964*

Pedro Rosso (in Obstetrics & Gynecology and Institute of Human Nutrition). *M.D., Chile, 1966*
David Rush (also Public Health). *B.A., Harvard, 1955; M.D., 1959*
Katherine Sprunt. *B.A., Wellesley, 1942; M.D:, Johns Hopkins, 1945*

Associate Professors of Clinical Pediatrics

Russell S. Asnes. *B.A., Boston, 1959; M.D., Tufts, 1963*
Jennifer J. Bell. *B.A., Swarthmore, 1953; M.D., New York, 1961*
William J. Davis. *B.A., Wilkes, 1961; M.D., Columbia, 1965*
John M. Driscoll. *B.A., Hamilton, 1958; M.D., Bowman Gray, 1962*
Susan G. Gordon. *B.A., Mt. Holyoke, 1946; M.D., Howard, 1950*
Jerry C. Jacobs. *B.A., Columbia, 1952; M.D., 1956*
M. Richard Koenigsberger (also Neurology). *B.S., Stanford, 1955; M.D., Chicago, 1959*
Anthony Mansell. *B.A., Princeton, 1961; M.D., Ohio State, 1965*
Jane Pitt. *B.A., Radcliffe, 1960; M.D. Harvard, 1964*
Anneliese L. Sitarz. *B.A., Bryn Mawr, 1950; M.D., Columbia, 1954*
Carl N. Steeg. *B.A., Johns Hopkins, 1958; M.D., New York Medical College, 1962*
Dorothy Warburton (in Human Genetics and Development). *Ph.D., McGill, 1961*

Associate Clinical Professors

Fred Agre. *B.A., Lafayette, 1957; M.D., Duke, 1961*
Robert Appleby. *M.D., Johns Hopkins, 1949*
William A. Bauman. *B.S., Harvard, 1943; M.D., Columbia, 1947*
Douglas S. Damrosch. *B.A., Columbia, 1937; M.D., 1940*
John J. Kangos. *B.S., Rutgers, 1945; M.D., Long Island College of Medicine, 1948*
Andrew P. Mezey. *B.S., Wisconsin, 1956; M.D., New York University, 1960*
Jack Shiller. *B.A., North Carolina, 1947; M.D., Columbia, 1952*
Joseph A. Silverman. *B.A., Princeton, 1952; M.D., Columbia, 1956*
Leo F. J. Wilking. *B.S., Harvard, 1941; M.D., Columbia, 1944*

Assistant Professors

Thomas Anderson. *B.S., Valdosta State, 1966; M.D., Medical College of Georgia, 1971*
Stephen J. Atwood. *B.A., Dartmouth, 1968; M.D., Albert Einstein, 1972*
Janna C. Collins. *B.A., Radcliffe, 1965; M.D., New York University; 1972*
Gabriel G. Haddad. *B.S., American (Berirut), 1969; M.D., 1972*
David S. Hodes (also Microbiology). *B.A., Princeton, 1963; M.D., Harvard, 1969*
Allan J. Hordof. *B.A., Hobart, 1962; M.D., New York University, 1966*
Adrien Moessinger. *M.D., Lausanne, 1971*
Martin A. Nash. *B.A., Duke, 1960; M.D., 1964*
Nigel Paneth (also Public Health) (in the Sergievsky Center). *B.A., Columbia, 1968; M.D., Harvard, 1972; M.P.H., Columbia, 1978*
Leila M. Pang (also Anesthesiology). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*
Tove Rosen. *B.A., Rochester, 1961; M.D., State University of New York (Downstate), 1965*
Karl F. Schulze. *B.A., Carleton, 1961; M.D., Rochester, 1965*
S. Alex Stalcup. *B.A., Whittier College, 1967; M.D., California, 1971*
Raymond I. Stark. *B.S, Columbia, 1963; M.D., 1970*
Michael A. Weiner. *B.S., Fairleigh Dickinson, 1968; M.D., State University of New York (Upstate), 1972*

Assistant Professors of Clinical Pediatrics

Mihaly Bartolos (in Human Genetics and Development). *M.D., Heidelberg, 1960*
Bernard R. Feldman. *B.S., William and Mary, 1955; M.D., Chicago Medical School, 1959*
Charles Feldman. *B.A., Columbia, 1966; M.D., State University of New York (Downstate), 1970*
Burton Grebin. *B.A., Adelphi, 1962; M.D., New York Medical College, 1966*
Constance J. Hayes. *B.S., St. Rose, 1959; M.D., Loyola, 1965*
Donald E. Hutchings (also Psychiatry). *B.A., Lake Forest, 1959; M.A., Chicago, 1963; Ph.D., 1965*
Celia Ores. *M.D., Berne (Switzerland), 1956*

Assistant Clinical Professors

Rose G. Ames. *B.A., Barnard, 1939; M.D., Columbia, 1944*
Soja P. Bennett. *B.S., Whitworth, 1964; M.D., Vanderbilt, 1968*
Alexander Blum, Jr. *B.S., Yale, 1944; M.D., Harvard, 1947*
Frederick M. Bomback. *B.A., Brandeis, 1965; M.D., New York Medical College, 1969*
Joseph M. Bordiuk. *B.A., Colgate, 1954; M.D., Cornell, 1958*
Matilda B. Brust. *B.A., Marietta, 1952; M.D., New York University, 1956*
Roger Challop. *B.S., Brooklyn, 1963; M.D., New York Medical College, 1967*
Yvonne T. Driscoll. *B.A., Trinity, 1958; M.D., Women's Medical College of Pennsylvania, 1962*
T. Donald Eisenstein. *B.A., Johns Hopkins, 1952; M.D., Albany Medical College, 1956*
Margureite J. Gates. *B.A., Barnard, 1950; M.D. Columbia, 1954*
Gustave Gavis. *B.A., Indiana, 1948; M.D., State University of New York (Downstate), 1952*
Thurman B. Givan, Jr. *B.S., Pittsburgh, 1949; M.D., Columbia, 1953*
Stephen Glaser. *B.A., Columbia, 1960; M.D., New York University, 1964*
Bertram H. Grossman. *B.A., North Carolina, 1948; M.D., Georgetown, 1959*
Jeannette J. Jansky. *M.S., City College, 1960*
Murray D. Kuhr. *B.S., Cincinnati, 1961; M.D., Chicago, 1965*
Betty C.M.L. Kuo. *B.A., Vassar, 1959; M.D., Albany Medical College, 1964*
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Environmental Health Sciences

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Professor

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Rehabilitation Medicine

Simon Baruch Professor and Chairman

John A. Downey. *M.D., Manitoba, 1954; D.Phil., Christ Church (Oxford), 1962; F.R.C.P.*

At Presbyterian Hospital

Associate Professor

Lucien J. Cote (also Neurology). *B.S., Vermont, 1951; M.D., 1954*

Associate Professors of Clinical Rehabilitation Medicine

Erwin G. Gonzalez. *B.A., Santo Tomas (Manila), 1962; M.D., 1967*
Stanley J. Myers. *B.A., New York University, 1957; M.D., State University of New York (Downstate), 1961*

Assistant Professor

Larry J. Crawshaw (also Pathology). *B.A., California, 1964*

Assistant Professors of Clinical Rehabilitation Medicine

Caroline O. McCagg. *B.A., Barnard, 1962; M.D., Yale, 1966*
Naomi L. Turner. *B.A., San Francisco Xavier (Bolivia), 1948; M.D., 1956*

Assistant Clinical Professors

Antonio Cocchiarella. *M.D., Bari (Italy), 1953*
Francis J. Foca. *B.S., Fordham, 1957; M.D., Bologna (Italy), 1966*
Damyanti G. Moorjani (also Pediatrics). *B.S., Bombay, 1953; M.D., Grant (Bombay), 1957*

ASSOCIATE IN CLINICAL REHABILITATION MEDICINE
Jonathan R. Moldover
Robert Stone, M.S. (at Blythedale Children's Hospital)

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE
Alfred Hess, D.O.
Vivenne Katz, M.A.
Margarita C. Klug
Anthony V. Porcelli

ASSISTANT IN CLINICAL REHABILITATION MEDICINE
Kathleen Watson-Walters, M.D. (at Blythedale Children's Hospital)

STAFF ASSOCIATES
Abigail R. Evans, B.A.
Daniel E. Lemons, M.S.

At Harlem Hospital

Professor of Clinical Rehabilitation Medicine

Albert D. Anderson (A. David Gurewitch Professor). *B.A., Columbia, 1948, M.D., Harvard, 1952*

Associate Professor of Clinical Rehabilitation Medicine

Herbert L. Thornhill. *B.S., Pittsburgh, 1951; M.D., Howard, 1955*

Associate Clinical Professor

Yasoma B. Challenor. *B.A., Hunter, 1959; M.D., State University of New York (Downstate), 1963*

Assistant Professor of Clinical Rehabilitation Medicine

Lucille C. Gunning (in Pediatrics). *B.A., New York University, 1945; M.D., Woman's Medical College of Pennsylvania, 1949*

ASSOCIATES IN CLINICAL REHABILITATION MEDICINE
Wanda Brokdzka, M.A.
Cecilia Macauley, M.A.

INSTRUCTORS IN CLINICAL REHABILITATION MEDICINE
Joseph Malloy, M.A.
Louise Weiss, M.A.

At Helen Hayes Hospital

Assistant Clinical Professor

Rodolfo L. Reyes. *M.D., Santo Tomas (Philippines), 1952*

ASSOCIATES IN CLINICAL REHABILITATION MEDICINE
Arun K. Bhattacharyya, M.D., M.S.
Salley Wisely, M.D.

At St. Luke's Hospital

Associate Clinical Professor

Shyh-Jong Yue. *M.D., National College of Medicine (Shanghai), 1938*

Assistant Clinical Professor

Lucille T. Pai. *M.D., Woman's Christian Medical College (Shanghai), 1941*

INSTRUCTOR IN CLINICAL REHABILITATION MEDICINE
Ravi Raj Malpe, M.B., B.S.

Occupational Therapy

Professor

Marie Louise Franciscus (director of program). *O.T.R., Philadelphia School of Occupational Therapy, 1937; B.S., Ohio State, 1947; M.A., Columbia, 1956*

Assistant Professor

Barbara Neuhaus. *B.A., Keuka, 1950; M.A., Columbia, 1960*

ASSOCIATES IN CLINICAL OCCUPATIONAL THERAPY
Margaret F. Brown, B.S.
Adele Germain, M.S.
Nedra P. Gillette, B.S., M.S.
Diane Shapiro, M.A.
Eleanor V. Shelly, B.S.
Gordon G. Williamson, Ph.D.

INSTRUCTORS IN CLINICAL OCCUPATIONAL THERAPY
Cheryl Colangelo, B.S.
Sandra Countee, M.S.
Alice Feinberg, M.S.
Laura B. Hoffman
Margarita C. Klug, B.S.
Carol H. Shaw, M.A.
Lorna J. Spearman
Alice R. Trie, B.S.

ASSISTANTS IN CLINICAL OCCUPATIONAL THERAPY
Elaine Bertles, B.S.
Laurelee Hawkins
Wendy R. Levine, B.S.
Sheryl Westcott

Physical Therapy

Professor

Mary E. Callahan (director of program). *R.N., Clinton Hospital, 1937; R.P.T., Posse College, 1940; B.S., New York University, 1950; M.A., Columbia, 1955*

Associate Professors

Ruth Dickinson (associate director of program). *B.S., Russell Sage, 1944; M.A., Columbia, 1947*
Althea M. Jones. *B.S., Panzer College of Physical Education, 1944; M.A., Columbia, 1972*

Assistant Professor

Bernadette Hecox. *B.S., Columbia, 1968; M.A., 1973*

ASSOCIATE IN CLINICAL PHYSICAL THERAPY
Theodore Corbitt, M.A.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY
Margaret Beyda, B.S.
Marion Marx, M.A.B.S.

INSTRUCTORS (*continued*)
Georgia Nesbit Reidel, B.S.
Diane Zuck, B.A.

ASSISTANTS IN CLINICAL PHYSICAL THERAPY
Joan Belding, B.S.
Jewel Derin, B.S.

ASSISTANTS (*continued*)
Lida Derzookian, B.S.
Ann B. Edgar, B.S.
Pamela Harris
James Kruse, M.S.
Joan Smith, B.S.

Surgery

Valentine Mott Professor and Johnson & Johnson Distinguished Professor and Chairman

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

At Presbyterian Hospital

Professors

Frank Gump. *B.A., Harvard, 1951; M.D., New York University, 1955*
David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*
Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
Robert B. Hiatt. *B.S., Wilmington, 1938; M.D., Cincinnati, 1942*
Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
Thomas J. Krizek. *B.S. Marquette, 1954; M.D., 1957; M.A., Yale, 1974*
John B. Price, Jr. *M.A., Texas, 1948; M.D., Johns Hopkins, 1950*
Thomas V. Santulli. *B.S., Columbia, 1935; M.D., Georgetown, 1939*

Professors of Clinical Surgery

Harold G. Barker. *B.A., Utah, 1939; M.D., Pennsylvania, 1943*
Bard Cosman. *B.A., Columbia, 1952; M.D., 1955*
James R. Malm. *B.A., Princeton, 1949; M.D., Columbia, 1946*
Arthur B. Voorhees, Jr. *B.A., Virginia, 1943; M.D., Columbia, 1946*

Associate Professor

Mark A. Hardy. B.A., Columbia, 1958; M.D., Albert Einstein, 1962

Associate Professor of Pathology

Nicole Suciu-Foca. *B.S., Bucharest (Rumania), 1954; M.S., 1960; Ph.D., 1965*

Associate Professors of Clinical Surgery

Joseph A. Buda. *B.A., Columbia, 1951; M.D., Cornell, 1955*
Richard N. Edie. *B.A., Princeton, 1959; M.D., Columbia, 1965*
Carl R. Feind. *B.A., Texas, 1940; M.D., Columbia, 1950*
Alfred Jaretzki III. *B.A., Harvard, 1941; M.D.,1944*
Alfred M. Markowitz. *B.A., New York University, 1948; M.D., Washington (St. Louis), 1952*
Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*
Francis C. Symonds, Jr. *B.A., Princeton, 1947; M.D., Columbia, 1951*
Bashir Ahmad Zikria. *B.S., George Washington, 1954; M.D., Johns Hopkins, 1958*

Associate Clinical Professors

Hugh Auchincloss, Jr. *B.A., Yale, 1938; M.D., Columbia, 1942*
Charles W. Findlay. *B.A., Yale, 1939; M.D., Columbia, 1943*
Kenneth Forde. *B.S., College of the City of New York, 1954; M.D., Columbia, 1959*
David M. Ju. *M.D., National Medical College (Shanghai), 1944; Med.Sc.D., Columbia, 1954*
Sven Kister. *B.A., Dartmouth, 1955; M.D., Harvard, 1958*
John N. Schullinger. *B.A., Princeton, 1951; M.D., Columbia, 1955*
Philip D. Wiedel. *B.S., Cannes (France), 1934; B.A., Columbia, 1938; M.D., 1941*

Senior Research Associate

William H. Dobelle. *B.A., Johns Hopkins, 1964; Ph.D., Utah, 1974*

Senior Research Associate of Biochemistry

David Elwyn. *B.A., Columbia, 1941; Ph.D., 1950*

Assistant Professors

David Bregman. *B.A., New York University, 1961; M.D., State University of New York (Downstate), 1965*
Paul Lo Gerfo. *B.S., Rensselaer Polytechnic Institute, 1961; M.S., 1963; M.D., State University of New York (Upstate), 1967*
Henry M. Spotnitz. *B.A., Harvard, 1962; M.D., Columbia, 1966*

Assistant Professor of Biochemistry

Irving Goodman. *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*

Assistant Professors of Clinical Surgery

Robert G. Bertsch. *B.A., Carleton, 1953; M.D., Columbia, 1957*
Ivo P. Janecka. *M.D., Charles (Prague), 1965*

Assistant Clinical Professor

Paul H. Gerst. *B.A., Columbia, 1948; M.D., 1952*

ASSOCIATE IN CLINICAL SURGERY
Richard J. Gusberg, M.D.

RESEARCH ASSOCIATES
Malayappa Jeevanandam, Ph.D.
Duncan L. McCollester, Ph.D.
Shanta M. Modak, M.D., Ph.D.
Ben T. Sandler, M.D.
Otto A. Szekely

INSTRUCTORS IN CLINICAL SURGERY
Vincent W. Ansanelli, M.D.
Alfred A. Azzoni, M.D.
Robert G. Blabey, M.D.
Harold M. Bruck, M.D.
Sherman M. Bull, M.D.
Roman Nowygrod, M.D.
Charles A. Slanetz, M.D.
Phillip W. Thieman, M.D.
James S. Todd, M.D.

SENIOR STAFF ASSOCIATES
Jerald Ray Evans, M.D.
Gregory F. Klomp, M.D.
Rita Lipton, B.A.

STAFF ASSOCIATES
Frank J. Flammino, Ph.D.
David C. Henderson, Ph.D.
Hiroshi Hashiguchi, M.D.
Charles Marrin, M.B.B.S.
Esther Meyer, M.A.
Kazunari Satake
Joseph Turkel, Ph.D.
Calvin Y. H. Wong, M.D.

SPECIAL LECTURER
William A. Gardner, M.D.
Raffaele Lattes, M.D.

LECTURERS
Shivaji B. Bhonslay, M.D.
George Escher, M.D.

At Mary Imogene Bassett Hospital

Professor of Clinical Surgery

David A. Blumenstock. *B.A., Union (Schenectady), 1949; M.D., Cornell, 1953*

Associate Clinical Professors

Rodman D. Carter (in Urology). *B.A., Harvard, 1950; M.D., Columbia, 1954*
John E. Olson. *B.A., Kansas, 1953; M.D., 1956*

Assistant Professor of Clinical Surgery

Roger W. MacMillan III. *B.S., Trinity, 1961; M.D., Columbia, 1965*

Assistant Clinical Professor

Edward J. Carey, Jr. *B.A., Harvard, 1954; M.D., Cornell, 1958*

INSTRUCTOR IN CLINICAL SURGERY
James Bordley IV, M.D.

At Harlem Hospital

Associate Professor of Clinical Surgery

Harold P. Freeman. *B.A., Catholic, 1954; M.D., Howard, 1958*

Associate Clinical Professors

David M. Carberry. *Ph.D., Providence, 1947; M.D., Jefferson, 1951*
John E. Hutchinson. *B.S., Morehouse, 1953; M.D., Meharry, 1957*
Robert F. Morton. *M.D., Meharry, 1944*
John W. Parker, Jr. *B.A., Fisk, 1942; M.D., Meharry, 1945*
Eugene T. Quash. *B.S., College of the City of New York, 1943; M.D., Howard, 1946*

Assistant Professor of Clinical Surgery

Barbara Barlow. *B.A., New York University, 1946; D.D.S., Columbia, 1950; M.D., 1953*

Assistant Clinical Professors

Salvatore G. Cinque. *B.S., College of the City of New York, 1943; M.D., Loyola, 1946*
Jacob K. Crittenden. *M.D., Kentucky, 1971*
James E. C. Norris. *B.A., Hampton Institute, 1953; M.D., Case Western Reserve, 1957*
Ruben Oropeza. *B.S., Mexico, 1948; M.D., 1955*
Carlton E. Patrick. *M.D., University of the Saar (Hamburg, Germany), 1957*

Assistant Clinical Professor of Neurological Surgery

Robert W. Schick. *B.A., Columbia, 1948; M.D., New York Medical College, 1952*

ASSOCIATES IN CLINICAL SURGERY
Matthew D. Branche, M.D.
Eustace E.S. Corbin, M.D.
S. Jerome Dickinson, M.D.
Rajinder Gandhi, M.D.
Urbano K. Guarin, M.D.
Malcolm Moley, M.D.
Vincent Porter, M.D.
Lawrence E. Taylor, M.D.
Pierre G. Van Bockstaele, M.D.

INSTRUCTORS IN CLINICAL SURGERY
James Bordley, M.D.
Egel Francois, M.D.
Ganepola A. Ganepola, M.D.

INSTRUCTORS (*continued*)
Edoardo Giuliani, M.D.
Robert W. Holtzman, M.D.
Avtar S. Josen, M.D.
Barnett Miller, M.D.
John R. Nailor, M.D.
Max Yergan, M.D.

INSTRUCTOR IN CLINICAL ORTHOPEDIC SURGERY
George V. DiGiocinto, M.D.

ASSISTANTS IN CLINICAL NEUROSURGERY
Michael Rapak, M.D.
Gurmukh S. Walha, M.D.

At Overlook Hospital

Associate Clinical Professor

Richard W. Brenner. *B.A., Princeton, 1954; M.D., Columbia, 1958*

Assistant Clinical Professors

David Befeler. *B.A., Columbia, 1955; M.D., 1959*
Robert Specht. *B.A., Princeton, 1944; M.D., Columbia, 1946*

ASSOCIATES IN CLINICAL SURGERY
Bruce J. Brener, M.D.
John H. Cooper, M.D.
Douglas M. Costabile, M.D.
Victor D'Ambrosio, M.D.
John Joseph Hudock, M.D.

ASSOCIATES (*continued*)
Frank F. Kaiser, M.D.
Robert E. Knapp, M.D.
Daniel L. Moore, M.D.
Saverio J. Panzarino, M.D.
Morton Perkoff, M.D.

ASSOCIATES (*continued*)
Lester Silver, M.D.
Jerome Spivack, M.D.
John V. Triolo, M.D.
E. Bruce Whitesell, M.D.
Charles J. Wittmann, Jr., M.D.

At Roosevelt Hospital

Professor of Clinical Surgery

Walter Wichern. *B.S., Mount Union, 1942; M.D., Harvard, 1945*

Associate Clinical Professors

William H. Cassebaum. *B.A., Cornell, 1927; M.D., 1931*
Richard G. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Joseph Ford. *B.A., Harvard, 1942; M.D., Columbia, 1945*
Charles C. Harrold, Jr. *B.S., Georgia, 1937; M.D., Harvard, 1941*
Adrian Lambert, Jr. *B.A., Yale, 1930; M.D., Columbia, 1934*
J. William Littler. *M.D., Duke, 1942*
Cedric J. Priebe, Jr. *B.S., Fordham, 1951; M.D., Cornell, 1955*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Thomas S. Royster. *B.A., North Carolina, 1940; M.D., Pennsylvania, 1943*

Assistant Clinical Professors

H. Clay Alexander. *B.A., Yale, 1956; M.D., Cornell, 1961*
John T. Brennan, Jr. *M.D., Harvard, 1950*
Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
William V. Healey, Jr. *B.A., Princeton, 1952; M.D., Columbia, 1956*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
T. Scudder Winslow, Jr. *B.A., Princeton, 1938; M.D., Cornell, 1942*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS IN CLINICAL SURGERY
Clarence A. Dunn, Jr., M.D.
John J. Keyser, M.D.
Richard A. Marks, M.D.
Walter H. Stingle, M.D.

At St. Luke's Hospital

Professor of Surgery

Hugh F. Fitzpatrick (Clark Professor). *Creighton, 1942; M.D., 1943*

Professor of Clinical Surgery

Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*

Associate Professor of Microbiology

George A. Hashim. *Ph.D., Columbia, 1967*

Associate Clinical Professors

George E. Green. *B.S., Yale, 1952; M.D., 1965*
W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*
Robert E. McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

Assistant Clinical Professors

Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Robert T. Edmunds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Conrad G. Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
Haroutane A. Mekhjian. *B.S., American (Beirut), 1961; M.D., 1965*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
Carl S. Oakman. *B.A., Harvard, 1933; M.D., Tufts, 1943*

INSTRUCTORS IN CLINICAL SURGERY
Charles R. Blair, M.D.
Peter B. Cinelli, M.D.
Clayton, R. De Haan, M.D.
Peter B. Fodor, M.D.

INSTRUCTORS (*continued*)
Philip E. Gordon, M.D.
Leif O. Holgersen, M.D.
Joshua M. Kaplan, M.D.
Danne R. Lorieo, M.D.

INSTRUCTORS (*continued*)
Paul I. Tomljanovich, M.D.
Hiroshi Washio, M.D.

STAFF ASSOCIATE
Mikio Kamiyama, Ph.D.

Urology

Professor and Chairman

John K. Lattimer. *B.A., Columbia, 1935; M.D., 1938; Med.Sc.D., 1943*

At Presbyterian Hospital

Professor of Clinical Urology

Ralph J. Veenema. *B.A., Calvin, 1952; M.D., Jefferson, 1945*

Associate Professor of Clinical Pathology

Myron Tannenbaum. *B.A., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

Associate Professors of Clinical Urology

Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*
Aurelio Uson. *M.D., Barcelona (Spain), 1950*

Associate Clinical Professors

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Assistant Professor of Clinical Pathology

Philip Tomashefsky. *Ph.D., New York University, 1969*

Assistant Professors of Clinical Urology

John D. Birkoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*

Assistant Clinical Professors

Elliot L. Cohen. *B.A., New York University, 1963; M.D., Chicago, 1967*
Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael W. Justice. *B.A., Kansas, 1950; M.D., 1954*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*
Robert R. White. *B.A., Amherst, 1949; M.D., Rochester, 1954*

ASSOCIATE IN CLINICAL UROLOGY
Charles E. Umhey, Jr., M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Frederick S. Dick, M.D.
Leonard J. Rudin, M.D.

ASSISTANTS IN CLINICAL UROLOGY
John C. Byrne, M.D.
Robert L. Pickens, M.D.

RESEARCH ASSOCIATE
Stanford Pulrang, M.D.

SPECIAL LECTURER
Bruno Fingerhut, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor of Surgery

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

INSTRUCTOR IN CLINICAL UROLOGY
Bruce MacDonald, M.D.

At Harlem Hospital

Associate Clinical Professor

Harold A. Garnes. *B.S., College of the City of New York, 1944; M.D., Howard, 1951*

At Overlook Hospital

ASSOCIATES IN CLINICAL UROLOGY
Kenneth L. Day, M.D.
Pascal A. Pironti, M.D.

ASSOCIATES (*continued*)
Joseph S. Ritter, M.D.
Morey Wosnitzer, M.D.

At Roosevelt Hospital

Associate Clinical Professor

Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

INSTRUCTOR IN CLINICAL UROLOGY
James W. Vastola, M.D.

At St. Luke's Hospital

Associate Clinical Professor

Russell W. Lavengood, Jr. *B.A., St. Joseph's (Indiana), 1947; M.D., Louisville, 1951*

Assistant Professor of Clinical Urology

Manuel Fernandes. *M.D., Coimbra (Portugal), 1956*

Assistant Clinical Professor

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

ASSOCIATE IN CLINICAL UROLOGY
Arumbi P. Subramaniam, M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Philip C. Cea, M.D.
Harry S. David, M.D.

INSTRUCTORS (*continued*)
Alfred F. Fretz, M.D.
Waleed G. Maloof, M.D.
Constantine Photos, M.D.
William R. Pitts, Jr., M.D.
Joseph D. Putignano, M.D.

INSTRUCTORS (*continued*)
Alexander Sotiropoulos, M.D.
Rudolph D. Talarico, M.D.

ASSISTANT IN CLINICAL UROLOGY
Abas Rezvani, M.D.

First-Year Postgraduate Appointments: Class of 1979

Aisen, Paul S. *Case Western Reserve University Hospitals, Cleveland, Ohio.* Medicine
Alexander, David T. *Presbyterian Hospital, New York, New York.* Pediatrics
Arden, James R. *Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire.* Medicine
Barry, Elizabeth. *Brookdale Hospital Center, Brooklyn, New York.* Medicine
Barry, M. Anita. *Boston City Hospital, Boston, Massachusetts.* Medicine
Barton, Brooke M. *University of California, Los Angeles Neuropsychiatric Institute, Los Angeles, California.* Psychiatry
Bassett, Mary T. *Harlem Hospital, New York, New York.* Medicine
Becker, Mary Alice. *Presbyterian Hospital, New York, New York.* Medicine
Bernstein, Debra J. *Bronx Municipal Hospital Center, Bronx, New York.* Pediatrics
Bisserup, Robert S.. *Harlem Hospital, New York, New York.* Medicine
Bitetti, Janice M. *Presbyterian Hospital, New York, New York.* Medicine
Blumenthal, Celia B. *Mount Sinai Hospital, New York, New York.* Pediatrics
Boucher, Ralph A. *Michael Reese Hospital, Chicago, Illinois.* Medicine
Boxhill, Agnes M. *Roosevelt Hospital, New York, New York.* Medicine
Brandt-Rauf, Paul W. *Presbyterian Hospital, New York, New York.* Pathology
Brin, Mitchell F. *Mount Sinai Hospital, New York, New York.* Medicine
Cadet, Jean L. *Overlook Hospital, Summit, New Jersey.* Flexible
Cafferty, Maureen S. *St. Luke's Hospital Center, New York, New York.* Medicine
Cali, Michael D. *Montefiore Hopsital Center, Bronx, New York.* Medicine
Camras, Carl B. *Los Angeles County Harbor General Hospital, Torrance, California.* Medicine
Chodos, Joel E. *Mount Sinai Hospital, New York, New York.* Medicine
Cogen, Fran R. *Presbyterian Hospital, New York, New York.* Pediatrics
Conway, Stephen R. *Grady Memorial Hospital, Atlanta, Georgia.* Medicine
Craig, Michael J. *Roosevelt Hospital, New York, New York.* Surgery
Creger, Philip S. *Kaiser Foundation Hospital, San Francisco, California.* Medicine
Csete, Marie E. *Massachusetts General Hospital, Boston, Massachusetts.* Medicine
De Felipo, Noel P. *Beth Israel Hospital, Boston, Massachusetts.* Surgery
Di Biase, John J. *St. Luke's Hospital Center, New York, New York.* Surgery
Diefenbach, William P. *St. Luke's Hospital Center, New York, New York.* Surgery
Edinburgh, David M. *University of Texas Southwestern Affiliated Hospitals, Dallas, Texas.* Obstetrics and Gynecology
Evans, Walter F. *University of Texas Southwestern Affiliated Hospitals, Dallas, Texas.* Obstretics and Gynecology
Flick, Jonathan A. *Case Western Reserve University Hospitals, Cleveland, Ohio.* Pediatrics
Forem, Sandra L. *Mount Sinai Hospital, New York, New York.* Pediatrics
Francomano, Thomas J. *St. Luke's Hospital Center, New York, New York.* Surgery
Frankel, Etta B. *Montefiore Hospital Center, Bronx, New York.* Pediatrics
Gilbard, Jeffrey P. *Stanford University Hospital, Stanford, California.* Medicine
Gordon, Kimberly. *Hospitals of the University Health Center, Pittsburgh, Pennsylvania.* Pediatrics
Grelsamer, Ronald P. *St. Luke's Hospital Center, New York, New York.* Surgery
Harary, Albert M. *University of Miami Affiliated Hospitals, Miami, Florida.* Medicine
Hensel, Bruce M. *University of California, Los Angeles Neuropsychiatric Institute, Los Angeles, California.* Psychiatry

Holmberg, Scott D. *Roger Williams General Hospital, Providence, Rhode Island.* Medicine
Horowitz, Nina R. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery
Hradesky, Christine L. *Los Angeles County Harbor General Hospital, Torrance, California.* Psychiatry
Jacobs, Michael A. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* Surgery
Jacobson, Ira M. *University of California Hospitals, San Francisco, California.* Medicine
Johnson, Lawrence P. *University of Texas Southwestern Affiliated Hospitals, Dallas, Texas.* Surgery
Jozefowicz, Ralph F. *Strong Memorial Hospital, Rochester, New York.* Medicine
Kahn, David A. *Presbyterian Hospital, New York, New York.* Medicine
Kahn, Jeffrey P. *Overlook Hospital, Summit New Jersey.* Flexible
Katz, Martha E. *Montefiore Hospital Center, New York, New York.* Family Practice
Kelsey, Peter B. *Presbyterian Hospital, New York, New York.* Medicine
Knapp, Albert B. *Bronx Municipal Hospital, Bronx, New York.* Medicine
Knox, Karen B. *St. Louis University Group Hospitals, St. Louis, Missouri.* Obstetrics and Gynecology
Korn, Jane E. *University of Minnesota Hospitals, Minneapolis, Minnesota.* Medicine
Kosovsky, Karen A. *St. Luke's Hospital Center, New York, New York.* Medicine
Kucharchik, Thomas. *Medical University of South Carolina Hospitals, Charleston, South Carolina.* Family Practice
Kudlak, Theresa T. *The New York Hospital, New York, New York.* Obstetrics and Gynecology
Kurth, Donald J. *The Johns Hopkins Hospital, Baltimore, Maryland.* Surgery
Kwiatkowski, David J. *Massachusetts General Hospital, Boston, Massachusetts.* Medicine
Labinson, Robert M. *Montefiore Hospital Center, Bronx, New York.* Medicine
Lamm, Joel L. *Mount Zion Hospital, San Francisco, California.* Medicine
Lee, David K. P. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Lehman, Lawrence B. *Lenox Hill Hospital, New York, New York.* Surgery
Leibowitz, Steven. *Stanford University Hospital, Stanford, California.* Medicine
Leventhal, Jeanne L. *New York University Medical Center, New York, New York.* Psychiatry
Levitan, Sara A. *St. Luke's Hospital Center, New York, New York.* Medicine
Levitt, Lynn C. *University of Virginia Hospital, Charlottesville, Virginia.* Surgery
Li, Lawrence. *Duke University Medical Center, Durham, North Carolina.* Family Practice
Liskin, Barbara A. *Presbyterian Hospital, New York, New York.* Pediatrics
Litsky, Alan S. *Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire.* Surgery
Lowe, Franklin C. *The Johns Hopkins Hospital, Baltimore, Maryland.* Surgery
McCrimons, Daniel E. *Children's Memorial Hospital of Northwestern University, Chicago, Illinois.* Pediatrics
McDonald, Patricia A. *St. Vincent's Hospital, New York, New York.* Flexible
Madoff, Robert D. *University of Minnesota Hospitals, Minneapolis, Minnesota.* Surgery
Manson, Carolyn. *Beth Israel Hospital, New York, New York.* Pediatrics
Marchese, Anne C. *Presbyterian Hospital, New York, New York.* Medicine
Mark, Laurence P. *St. Vincent's Hospital, New York, New York.* Surgery
Marks, Elizabeth L. *New York University-Veterans Administration Hospital, New York, New York.* Medicine

Martin, Eva. *University of California (Irvine) Affiliated Hospitals, Irvine, California.* Obstetrics and Gynecology
Matsuba, Howard M. *Mount Sinai Hospital, New York, New York.* Surgery
Merkow, Robert L. *Hennepin County General Hospital, Minneapolis, Minnesota.* Surgery
Miller, Andrew D. *Los Angeles County Harbor General Hospital, Torrance, California.* Pediatrics
Miller, Ronald W. *Presbyterian Hospital, New York, New York.* Medicine
Morrison, David S. *University of Utah Affiliated Hospitals, Salt Lake City, Utah.* Surgery
Muncaster, Richard B. *Mary Imogene Bassett Hospital, Cooperstown, New York.* Surgery
Orell, Jeffrey A. *Hartford Hospital, Hartford, Connecticut.* Medicine
Orenstein, Harry H. *New York University Medical Center, New York, New York.* Surgery
Packer, Michael G. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery
Palmisano, Joanne J. *Bronx Municipal Hospital Center, Bronx, New York.* Medicine
Perez, Nydia E. *St. Luke's Hospital Center, New York, New York.* Obstetrics and Gynecology
Peyser, Karen E. *Case Western Reserve University Hospitals, Cleveland, Ohio.* Pediatrics
Polan, H. Jonathan. *The New York Hospital, New York, New York.* Psychiatry
Pollack, David M. *Presbyterian Hospital, New York, New York.* Pediatrics
Pollack, Geoffrey J. *Mount Sinai Hospital, New York, New York.* Surgery
Pollack, Steven A. *St. Luke's Hospital Center, New York, New York.* Medicine
Purcell, Ralph N. *Baylor College Affiliated Hospitals, Houston, Texas.* Medicine
Quarnstrom, Thomas J. *Tripler Army Medical Center, Honolulu, Hawaii.* Family Practice
Raiken, Deborah F. *Childrens Hospital of Philadelphia, Philadelphia, Pennsylvania.* Pediatrics
Ronner, Hilary J. *Overlook Hospital, Summit, New Jersey.* Flexible
Rosenstein, Dwight. *North Shore University Hospital, Manhasset, New York.* Medicine
Ross, Alan B. *University of California Hospital, Los Angeles, California.* Obstetrics and Gynecology
Rubinstein, Alina A. *Bronx Municipal Hospital Center, Bronx, New York.* Psychiatry
Russo, Paul. *Washington University Affiliated Hospitals, St. Louis, Missouri.* Surgery
Satlin, Lisa M. *Presbyterian Hospital, New York, New York.* Pediatrics
Scerbo, James A. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Schlesinger, Mark P. *Roosevelt Hospital, New York, New York.* Surgery
Schwartz, Harold I. *The New York Hospital, New York, New York.* Psychiatry
Sciascia, Thomas R. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Seaman, Cheryl. *New York Hospital-Westchester Division, White Plains, New York.* Psychiatry
Sebag, Jerry. *Cedars-Sinai Medical Center, Los Angeles, California.* Medicine
Seitz, William H. *St. Vincent's Hospital, New York, New York.* Surgery
Shapiro, David M. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Surgery
Shea, Steven J.C. *Presbyterian Hospital, New York, New York.* Medicine
Siegel, Robert E. *St. Luke's Hospital Center, New York, New York.* Medicine

Siegfried, Virginia A. *University of California Hospital, Los Angeles, California.* Obstetrics and Gynecology
Silbert, Glenn R. *Beth Israel Hospital, New York, New York.* Surgery
Sims, Katherine B. *Massachusetts General Hospital, Boston, Massachusetts.* Pediatrics
Sims, Nathaniel M. *Massachusetts General Hospital, Boston, Massachusetts.* Surgery
Stackhouse, Thomas G. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Orthopedic Surgery
Stark, Barbara J. *University of Texas Southwestern Affiliated Hospitals, Dallas, Texas.* Medicine
Stein, H. David. *Overlook Hospital, Summit, New Jersey.* Flexible
Sternfeld, Nancy L. *Presbyterian Hospital, New York, New York.* Medicine
Stevens, Laurie A. *New England Deaconess Hospital, Boston, Massachusetts.* Surgery
Stork, Linda C. *Presbyterian Hospital, New York, New York.* Pediatrics
Struthers, Charlene M. *St. Luke's Hospital Center, New York, New York.* Pathology
Stuchiner, David J. *Massachusetts General Hospital, Boston, Massachusetts.* Psychiatry
Sulis Carol A. *Roger Williams Hospital, Providence, Rhode Island.* Medicine
Sybert, Peter E. *Cedars-Sinai Medical Center, Los Angeles, California.* Medicine
Taus, Richard H. *Good Samaritan Hospital, Los Angeles, California.* Medicine
Thane, Michael W. *Roger Williams Hospital, Providence, Rhode Island.* Medicine
Werner, Morgan S. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Wissel, Paul S. *Ohio State University Hospitals, Columbus, Ohio.* Medicine
Witzel, Phyllis B. *Bronx Municipal Hospital Center, Bronx, New York.* Pediatrics
Wormser, Andrew C. *Strong Memorial Hospital, Rochester, New York.* Medicine
Yacovone, Joseph F. *St. Vincent's Hospital, New York, New York.* Flexible
Zatzkis, Mark A. *University of California Hospital, Los Angeles, California.* Medicine
Zolnick, Lawrence A. *Presbyterian Hospital, New York, New York.* Obstetrics and Gynecology
Zuflacht, Richard N. *Michael Reese Hospital, Chicago, Illimios.* Medicine

Student Roster: Class of 1980

Ahlborn, Thomas Nesbitt Wilmette, Ill. *B.A., Harvard, 1975*
Allan, Anne Elizabeth Wilmington, Del. *B.A., Johns Hopkins, 1976*
Anderson, Nancy Ann New York, N.Y. *B.A., Barnard, 1976*
Anthony, Kent Ervin Cleveland, Tenn. *B.A., Columbia, 1976*
Apfelbaum, Terri Francine New York, N.Y. *B.A., Barnard, 1976*
Appel, Rena Lee New York, N.Y. *B.A., Barnard, 1972*
Bello, Jacqueline Anne Rye, N.Y. *B.A., Dartmouth, 1976*
Berkeley, Hope Ann Jersey City, N.J. *B.A., Barnard, 1972*
Bernstein, Carol Ann Holywood, Fla. *B.A., Bryn Mawr, 1969*
Bernstein, Wendy Scarsdale, N.Y. *B.A., Wesleyan, 1976*
Bluh, Donald Long Island City, N.Y. *B.A., Columbia, 1973*
Blumenkehl, Mark Lewis Paterson, N.J. *B.A., Brooklyn College, 1976*
Boakye-Adjei, Oheneba Brooklyn, N.Y. *B.S., Brooklyn College, 1976*
Bogen, Craig Alan Coram, N.Y. *B.A., Pennsylvania, 1976*
Bransford, Kent Jackson Anaheim, Calif. *B.A., California (Berkeley), 1976*
Brudney, Karen Florence Cambridge, Mass. *B.A., Yale, 1973*
Cartelli, Nancy Ann Bronx, N.Y. *B.A., Hunter, 1976*

Casper, Theodore Pearl River, N.Y. *B.A., Cornell, 1976*
Chow, John Hei-Sing Corona, N.Y. *B.S., Columbia, 1976*
Cohen, David Eliot Teaneck, N.J. *B.A., Wesleyan, 1976*
Cuadros, Cesar Luis Santa Monica, Calif. *B.S., California (Los Angeles), 1975*
Czaja, Mark James Natick, Mass. *B.A., Yale, 1976*
Danso, Alex Kingsley New York, N.Y. *B.A., Harvard, 1976*
Davey, Richard Thomas Dix Hills, N.Y. *B.S., Massachusetts Institute of Technology, 1976*
DeAngelis, Lisa Marie New Haven, Conn. *Wellesley*
Deland, Jonathan Thorndike Darien, Conn. *B.A., Harvard, 1976*
Delaney, Kathleen Ann Los Angeles, Calif. *B.S., California (Irvine), 1972*
Dennison, Allen Mansfield Bronx, N.Y. *B.A., Harvard, 1975*
Dillon, Peter Riverside, Conn. *B.S., Harvard, 1976*
Dolinsky, Paul Arthur Hartford, Conn. *B.S., Tufts, 1976*
Downey, Richard Stuart New York, N.Y. *B.A., Columbia, 1976*
Dubin, Leslie Beryl New York, N.Y. *B.A., Princeton, 1976*
Dwosh, Jack White Sulfur Springs, N.Y. *B.A., Cornell, 1976*
Ecker, Kendrik Michel Philadelphia, Pa. *B.A., Princeton, 1975*
Engler, Alan Michael Weston, Mass. *B.A., Yale, 1976*
Epner, Elliot M. North Woodmere, N.Y. *B.A., Wesleyan, 1976*
Epstein, Joel Harvey Albertson, N.Y. *B.A., Sarah Lawrence, 1976*
Fakharzadeh, Frederick F. Teaneck, N.J. *B.A., Cornell, 1976*
Farrell, Matthew Michael Bronx, N.Y. *B.S., Manhattan, 1974*
Fehrs, Laura J. Armonk, N.Y. *B.A., Kirkland, 1976*
Feiman, Nancy Beth New York, N.Y. *B.A., Yale, 1976*
Feller, Matthew Frederick Bayside, N.Y. *B.S., Columbia, 1976*
Fisher, William A. Bantam, Conn. *B.S., Yale, 1976*
Fithian, Eileen Marie Lititz, Pa. *B.A., Pittsburgh, 1972*
Flamm, Michael Jay New York, N.Y. *B.A., Yale, 1976*
Fox, Joyce Ellen New York, N.Y. *B.A., Bryn Mawr, 1976*
Fox, Susan C. New York, N.Y. *B.S., Ohio State, 1971*
Friedmann, Martin Lewis North Salem, N.Y. *B.A., Yale, 1973*
Gardine, Robert Louis Brooklyn, N.Y. *B.A., Columbia, 1976*
Gelfand, Janice Marcy Briarcliff Manor, N.Y. *B.S., Cornell, 1975*
Geller, Peter Levine Brookside, N.J. *B.A., Harvard, 1971*
Genkins, Steven Mark New York, N.Y. *B.A., Yale, 1976*
Geraci, Kira Antonia Malverne, N.Y. *B.A., Adelphi, 1976*
Goland, Robin Stephanie Skokie, Ill. *B.A., Radcliffe, 1976*
Goodrich, James *B.S., California (Irvine), 1974*
Graney, John Francis Swarthmore, Pa. *B.A., Swarthmore, 1973*
Griffin, Patrick Herbert Tulsa, Okla. *B.A., Columbia, 1976*
Grundfest, Warren Scott Belleville, N.J. *B.A., Swarthmore, 1975*
Hamm, Peter Gerard Washington, D.C. *B.A., Princeton, 1976*
Handlin, David Stephen North Woodmere, N.Y. *B.A., Harvard, 1976*
Handwerger, Sandra Dee N. Bellmore, N.Y. *B.A., Vassar, 1976*
Hardy, Howard Wesley III Washington, D.C. *B.A., Harvard, 1976*
Harris, David Alan Beverly Hills, Calif. *B.S., Yale, 1976*
Herbert, Robert Alan Scarsdale, N.Y. *B.A., Columbia, 1976*
Hollenberg, James Paul Great Neck, N.Y. *B.A., Harvard, 1976*
Hotes, Richard Eric West Hartford, Conn. *B.S., Trinity, 1976*
Howell, John Taylor III Cold Spring Harbor, N.Y. *B.S., Princeton, 1976*
Hurwitz, Samuel Michael Hamden, Conn. *B.A., Columbia, 1976*
Ilowsky, Barbara P. Highland Park, N.J. *S.M., Massachusetts Institute of Technology, 1976*
Jacobson, Wendy Nan Scarsdale, N.Y. *B.A., Wesleyan, 1976*
Kawata, Carol Lynn Los Angeles, Calif. *B.A., Stanford, 1976*

Kiest, Curtis Alan Portland, Ore. *B.A., Harvard, 1976*
Kumaki, David James Dolton, Ill. *B.A., Chicago, 1976*
Langendorf, Frederick New York, N.Y. *B.A., Harvard, 1973*
LaPook, Jonathan David Great Neck, N.Y. *B.S., Yale, 1975*
La Sala, Patrick Cedar Grove, N.J. *B.S., St. Peter's, 1975*
Lauderdale, Bradley Tenafly, N.J. *B.A., Harvard, 1976*
Lee, Dennis Elliott Rochester, N.Y. *B.S., Brown, 1976*
Leff, Steven Russell Flushing, N.Y. *B.A., Columbia, 1976*
Legant, Paul Morris Tempe, Ariz. *B.A., Whittier, 1970*
Levin, Daniel H. Jackson Heights, N.Y. *B.A., Columbia, 1976*
Lewis, Barbara Ann Shorewood, Wis. *B.A., Wisconsin, 1975*
Lipkin, Alan Frederick Bayside, N.Y. *B.A., Rochester, 1976*
Lipschitz, Sherman Scott Brooklyn, N.Y. *B.A., Columbia, 1976*
Lipson, Mindy Ann St. Paul, Minn. *B.S., Massachusetts Institute of Technology, 1976*
Lurio, Joseph G. Dobbs Ferry, N.Y. *B.A., Columbia, 1976*
Lyle, Henry Richard Nutting Lake, Mass. *B.A., Harvard, 1976*
McCann, Peter Damion New York, N.Y. *B.A., Columbia, 1975*
Macchi, Paul J. Westchester, N.Y. *B.A., Columbia, 1976*
McCluskey, Leo Francis West Paterson, N.J. *B.S., Boston, 1976*
Mackenzie, Jane Atkinson Greenfield, N.H. *B.S., Brown, 1976*
McKinley, George Franklin Glasgow, Ky. *B.A., Louisville, 1976*
Malin, Barnet David Beverly Hills, Calif. *B.A., Brown, 1976*
Mandelbaum, David *B.A., Columbia, 1964*
Manelis, Jocelyn Beth Fall River, Mass. *B.A., Wellesley, 1976*
Maxwell, Celia J. New York, N.Y. *B.S., Hunter, 1973*
Mazzeo, Vincent Paul Brookville, N.Y. *B.A., Columbia, 1976*
Minikes, Neil Ira Jericho, N.Y. *B.S., SUNY (Stony Brook), 1974*
Moley, Jeffrey Fletcher Quogue, N.Y. *B.A., Harvard, 1976*
Morris, Valery Lois New Milford, N.J. *B.A., Princeton, 1976*
Murphy-Chutorian, Douglas Roger Queens, N.Y. *B.S., Columbia, 1976*
Navia, Bradford Armando Ridgewood, N.J. *B.A., Columbia, 1976*
Newman, Bernard Patrick III Nanuet, N.Y. *B.A., Williams, 1976*
Nunez, Domingo C. New York, N.Y. *B.A., Columbia, 1976*
O'Connell, Genevieve Cecilia Waterbury, Conn. B.A., Connecticut, 1972
O'Laughlin, Martin Pius Kansas City, Mo. *B.A., Harvard, 1976*
Oliver, Dennis Carey Delhi, N.Y. *B.S., Georgetown, 1976*
Orentriech, David Scott New York, N.Y. *B.S., Hobart, 1976*
Pankewycz, Oleh George New Brunswick, N.J. *B.S., Rutgers, 1976*
Paradis, Marc Andre Belmont, Mass. *B.A., Holy Cross, 1976*
Parnes, Anita Lynn New York, N.Y. *B.A., Radcliffe, 1976*
Paul, Matthew David Teaneck, N.J. *B.A., Wesleyan, 1975*
Pfeffer, Sondra Jane New York, N.Y. *B.A., Barnard, 1976*
Quevedo, Jonathan Paul Bronx, N.Y. *B.S., Fordham, 1976*
Radin, Arthur Irwin Bronx, N.Y. *B.A., Columbia, 1976*
Ressa, Ames Daniel Port Washington, N.Y. *B.A., Brown, 1976*
Roman, Mary Jean Indianapolis, Ind. *B.A., Barnard, 1974*
Romano, Angela Antonia Brooklyn, N.Y. *B.S., Barnard, 1976*
Rosenfield, Suzanne Syosset, N.Y. *B.A., Sarah Lawrence, 1975*
Rubenfeld, Marian Ruth Bronx, N.Y. *B.A., Barnard, 1976*
Rund, Deborah Gasner New York, N.Y. *B.A., City College of New York, 1970*
Saber, William Leland Freeport, N.Y. *B.A., Hampshire, 1976*
Sahar, David I. Rutherford, N.J. *B.A., Columbia, 1975*
Sakwa, Marc Peter Southfield, Mich. *B.A., Brown, 1976*
Schiz, Steven L. Valley Stream, N.Y. *B.A., California (Berkeley), 1976*
Schlam, Julia Frances Oradell, N.J. *B.S., Yale, 1976*

Schloss, Stephen Bertram Forest Hills, N.Y. *B.S., Yale, 1976*
Schulz, Danielle Eve Bronx, N.Y. *B.A., Smith, 1976*
Scott, Wendell O. Randolph, Mass. *B.S., Tufts, 1976*
Segal, Michael Myer Cambridge Mass. *B.A., Harvard, 1976*
Serdarevic, Olivera Natalie Goshen, N.Y. *B.A., Barnard, 1976*
Shapiro, Peter Andrew Chicago, Ill. *B.A., Princeton, 1976*
Sharanevych, Irene Sophia Irvington, N.J. *B.A., Rutgers, 1976*
Softness, Barney Glen Cove, N.Y. *B.A., Amherst, 1976*
Solomon, Meryl Levey Bronx, N.Y. *B.A., City College of New York, 1976*
Starker, Paul Matthew Nyack, N.Y. *B.S., Harvard, 1976*
Steinberg, Robin Faith Long Beach, N.Y. *B.A., Smith 1976*
Sullivan, Mary Anna Lowell, Mass. *B.A., Dartmouth, 1976*
Swiderski, Deborah M. Syracuse, N.Y. *B.A., Barnard, 1971*
Talbot, Paul Anthony Queens, N.Y. *B.A., Columbia, 1975*
Teichman, Sam Leopold Rego Park, N.Y. *B.A., Columbia, 1976*
Thomas, Natalia Elena Brooklyn, N.Y. *B.A., Radcliffe, 1976*
Ultmann, Monica Chicago, Ill. *B.A., Oberlin, 1975*
Waltner, Nancy Madeleine New York, N.Y. *B.A., Brown, 1976*
Wescoe, Sibyl Douglas, Kan. *B.A., Kansas, 1975*
Weinstock, Ruth *B.A., Smith, 1974*
West, Sally Agnes. New York, N.Y. *B.S., Yale, 1973*
Wiznia, Andrew Alan. Little Neck, N.Y. *B.A., Brandeis, 1976*
Yellin, Tova Gail. Aurora, Ill. *B.A., Barnard, 1976*
Zeidel, Mark Lawrence. Waitsfield, Vt. *B.S., M.S., Yale, 1976*
Zwas, Felice Rosel. Brooklyn, N.Y. *B.A., Barnard, 1976*

Student Roster: Class of 1981

Adams, Roberta Harris. Bronxville, N.Y. *B.S., Antioch, 1977*
Aiken, Brenda. Brooklyn, N.Y. *B.A., Barnard, 1977*
Aldea, Gabriel-Sorin. New York, N.Y. *B.A., Columbia, 1977*
Altshuler, Steven Lane. Englewood, N.J. *B.A., Rochester, 1977*
Amador, Jorge Luis. Bronx, N.Y. *B.A., Princeton, 1975*
Apfelbaum, Mark. New York, N.Y. *B.A., Yeshiva, 1977*
Appleton, Abraham T. Englewood, N.J. *B.A., Yeshiva, 1976*
Aranow, Robert Bittman Hastings-on-Hudson, N.Y. *B.A., Harvard, 1977*
Arildsen, Ronald Curtis Endicott, N.Y. *B.S., M.S., Yale, 1977*
Auletta, Maria Jackson Heights, N.Y. *B.S., St. Francis, 1977*
Ausubel, Kalman Brooklyn, N.Y. *B.A., Yeshiva, 1977*
Bauman, Phillip Allen Larchmont, N.Y. *B.A., Harvard, 1976*
Beane, Susan Jo Bronx, N.Y. *B.A., Princeton, 1977*
Beitz, Julie Germaine Jackson Heights, N.Y. *B.A., Barnard, 1977*
Blackwood, Roland Alexander New Rochelle, N.Y. *B.A., Columbia, 1976*
Booth, Richard Linn Cambridge, Ohio *B.A., Princeton, 1977*
Broom, Michael Joseph Sudbury, Mass. *B.A., Dartmouth, 1977*
Butler, Annette Louise Laurelton, N.Y. *B.S., Queens, 1977*
Byrne, Jeffrey Michael Sherborn, Mass. *B.S., Massachusetts, 1977*
Cagliostro, Stephen Bronx, N.Y. *B.A., Columbia, 1977*
Capaldo, Maria Elena New York, N.Y. *B.S., Hunter, 1970*
Carson, JoAnn Monroe, N.Y. *B.S., Yale, 1977*
Castiglione, Charles L. Hamden, Conn. *B.A., Yale, 1977*
Chandra, Elizabeth Stuart New York, N.Y. *B.A., Goucher, 1972*
Clinton, Henry Louis New York, *B.A., Columbia, 1977*
Cohen, Paul Jay Bronx, N.Y. *B.A., Columbia, 1977*
Cohen, Ron New York, N.Y. *B.A., Princeton, 1977*

Collymore, Victor Alvin Bronx, N.Y. *B.A., Columbia, 1977*
Colon-Linares, Juan Ponce, Puerto Rico *Iowa*
Cotto, Sonla Brooklyn, N.Y. *B.A., Barnard, 1977*
Cutillo, Robert Paul Montclair, N.J. *B.S., Georgetown, 1977*
Degreef, Gustav Lido Beach, N.Y. *B.A., Hofstra, 1976*
Deluty, Sheldon Howard Bronx, N.Y. *B.A., Columbia, 1977*
Devinsky, Orrin South Orange, N.J. *B.S., Yale, 1977*
Diao, Edward Flushing, N.Y. *B.A., Harvard, 1977*
Diaz, Angela New York, N.Y. *City College of New York, 1976*
Dick, Alison B. Westbury, N.Y. *B.S., Cornell, 1977*
Drucker, Elizabeth Anne San Mateo, Calif. *B.A., Princeton, 1977*
Drury, Bernard J. Santa Barbara, Calif. *B.S., San Francisco, 1975*
Ehrlich, Carol Margaret New York, N.Y. *B.A., Barnard, 1977*
Elliott, Deirdre Davina New York, N.Y. *B.S., Columbia, 1977*
Esposito, Robert M. Uniondale, N.Y. *B.A., Adelphi, 1974*
Feit, David Louis Brooklyn, N.Y. *B.A., Brandeis, 1977*
Feld, Randy Jay Massapequa Park, N.Y. *B.A., Cornell, 1977*
Flatow, Evan Lloyd New York, N.Y. *B.A., Princeton, 1977*
Freedman, Susan Dee Palo Alto, Calif. *B.A., Yale, 1975*
Freyberg, Christopher Wm. Pleasantville, N.Y. *B.S., Wisconsin, 1977*
Garrett, Jeffrey S. Forest Hills, N.Y. *B.A., Queens, 1977*
Gendler, Ellen Caryn Bellmore, N.Y. *B.A., Wesleyan, 1977*
Gertler, Jonathan Paul New York, N.Y. *B.A., Wesleyan, 1977*
Glantz, Sanford David Rosedale, N.Y. *B.S., SUNY (Stony Brook), 1977*
Goldberg, David Michael Stamford, Conn. *B.A., Yale, 1974*
Goldstein, Nannette Buffalo, N.Y. *B.A., SUNY (Stony Brook), 1973*
Golub, Robert Matthew Newburgh, N.Y. *B.A., Princeton, 1977*
Gravallese, Ellen M. Andover, Mass. *B.A., Harvard, 1977*
Grossl, Eugene Andrew New York, N.Y. *B.A., Columbia, 1977*
Grunberg, Eva Lillian Flushing, N.Y. *B.A., Queens, 1977*
Hayes, Dewleen Gay Atherton, Calif. *B.A., Stanford, 1968*
Holubowitch, Edward J. Warwick, N.Y. *B.A., Dartmouth, 1977*
Hresko, Michael Timothy Flint, Mich. *B.A., Harvard, 1976*
Katzman, Michael Brooklyn, N.Y. *B.A., Columbia, 1977*
Kellman, Howard David Monongahela, Pa. *B.A., Stanford, 1974*
Kirby, Mathis Ann Forest Hills, N.Y. *B.A., Mount Holyoke, 1977*
Kleiman, Neal Stephen Staten Island, N.Y. *B.A., Princeton, 1977*
Kutscher, Martin Lyle Scarsdale, N.Y. *B.A., Columbia, 1977*
Kwon, Peter Heejoon, Jr. Los Angeles, Calif. *B.S., Massachusetts Institute of Technology, 1977*
Landaw, Irene Sarah Staten Island, N.Y. *B.A., SUNY (Purchase), 1976*
Landy, Harold Stephen New York, N.Y. *B.A., Harvard, 1972*
Le, Xuan Ha Thi Clarence, N.Y. *B.S., SUNY (Buffalo), 1977*
Lee, Timothy Leslie Sacramento, Calif. *B.A., Johns Hopkins, 1977*
Lehmann, Harold Philip New York, N.Y. *B.A., Columbia, 1977*
Levin, Marc Stephen New Rochelle, N.Y. *B.S., Massachusetts Institute of Technology, 1977*
Levine, Alice Carla New York, N.Y. *B.A., SUNY (Albany), 1973*
Lipman, Steve Paul Huntington, N.Y. *B.A., Amherst, 1977*
Louard, Rita Jean Woodmere, N.Y. *B.A., Bryn Mawr, 1976*
Lowy, Israel Forest Hills, N.Y. *B.A., Princeton, 1977*
Lubka, Rhonda Hartford, Conn. *B.A., Barnard, 1977*
Ludwig, Robert Lewis Merrick, N.Y. *B.A., Cornell, 1977*
Mackey, Steven Lee South Columbus, Ohio *B.A., Columbia, 1976*
Marshall, Mitchell H. New York, N.Y. *B.A., Brandeis, 1974*
Miro, Claudio Lazaro West Orange, N.J. *B.A., Princeton, 1977*

Moss, Barbara Ann Bronx, N.Y. *B.A., Barnard, 1967*
Moy, Larry Bronx, N.Y. *B.S., City College of New York, 1977*
Muraszko, Karin Marie New Providence, N.J. *B.S., Yale, 1977*
Murphy, Stephen Gerard North Attleboro, Mass. *B.S., Columbia, 1977*
Muschel, Michael J. Monsey, N.Y. *B.A., Yeshiva, 1977*
Nercessian, Ohannes A. Bronx, N.Y. *B.S., Lehman, 1977*
Nerenstone, Stacy Ruth Iowa City, Iowa *B.A., Brown, 1977*
Oppedisano, Carlyn Ann Roslyn Heights, N.Y. *B.A., Adelphi, 1977*
Orland, Steven M. Cherry Hill, N.J. *B.A., Princeton, 1977*
Ozick, Lisa A. Riverdale, N.Y. *B.A., City College of New York, 1977*
Palazzolo, Michael John New York, N.Y. *B.A., Columbia, 1976*
Patsos, Theodore John Canton, Mass. *B.A., Brown, 1977*
Pellicone, John Thomas Clinton, Conn. *B.A., Dartmouth, 1977*
Peress, Richard Eliot Jamaica, N.Y. *B.A., New York University, 1977*
Perofsky, Howard Jay Flushing, N.Y. *B.A., City College of New York, 1977*
Petchler, Janet Caroline Hamden, Conn. *B.A., Vassar, 1976*
Raby, Khether Emile Great Neck, N.Y. *B.S., Muhlenberg, 1977*
Regan, Raymond Francis Edgewater, N.J. *B.A., Rutgers, 1977*
Richmond, Kenneth Herbert Providence, R.I. *B.A., Brown, 1971*
Rifkin, Terry Paul Yonkers, N.Y. *B.A., Yeshiva, 1977*
Roberts, James Michael Scarsdale, N.Y. *B.A., Amherst, 1977*
Rogers, David Michael East Rockaway, N.Y. *B.A., Harvard, 1977*
Rosenfield, Howard T. Newton Center, Mass. *B.A., Brandeis, 1968*
Rosenthal, Robert Bruce West Hartford, Con. *B.S., Yale, 1976*
Ross, Richard Steven Long Island City, N.Y. *B.A., Columbia, 1977*
Rozmaryn, Leo Martin Forest Hills, N.Y. *B.A., Queens, 1977*
Rudolph, Michael Alan Beverly Hills, Calif. *B.S., Stanford, 1977*
Sabir, Rafiq New York, N.Y. *B.A., City College of New York, 1977*
Sax, Frederic Lee Rosedale, N.Y. *B.S., Yale, 1977*
Scantlebury, Velma Patricia Brooklyn, N.Y. *B.S., Long Island, 1977*
Seely, Ellen Wells New York, N.Y. *B.A., Brown, 1977*
Shah, Dipti V. Fresh Meadows, N.Y. *B.A., Barnard, 1977*
Shear, Michael Peter Yonkers, N.Y. *B.A., SUNY (Purchase), 1977*
Shookster, Linda Anne Rego Park, N.Y. *B.A., Princeton, 1977*
Siegel, Robert David Jersey City, N.J. *B.A., Lafayette, 1977*
Sisti, Michael Brian Tenafly, N.J. *B.S.E., Cooper Union, 1977*
Small, Peter Alan Easton, Conn. *B.A., Tufts, 1977*
Smithy, William Brian Brookline, Mass. *B.A., Columbia, 1977*
Sobelson, Gary Alan North Bellmore, N.Y. *B.A., Dartmouth, 1977*
Solomon, Barry Howard Dobbs Ferry, N.Y. *B.S., American (Rome), 1975*
Speert, Peter Klee Brookline, Mass. *B.A., Williams, 1966*
Stein, Neil Brooklyn, N.Y. *B.A., Columbia, 1977*
Stern, Fredric A. Rockville Centre, N.Y. *B.A., B.S., Tufts, 1977*
Stoler, Joan Marilyn Brookline, Mass. *B.S., Brandeis, 1977*
Stone, Gary Carl Riverdale, N.Y. *B.A., Harvard, 1977*
Sulkow, Barbara Lynn *B.S., SUNY (Albany), 1974*
Teitelbaum, Joanne New York, N.Y. *B.A., Connecticut, 1968*
Valdes, Martin Hialeah, Fla. *B.A., Miami, 1977*
Vaughan, Luke Michael Plainview, N.Y. *B.A., Columbia, 1976*
Voutsas, Andrea K. Bayside, N.Y. *B.A., Mount Holyoke, 1977*
Wagman, Robert David Ontario, Canada *B.A., Harvard, 1977*
Warren, Susan Enid New York, N.Y. *B.A., Yale, 1973*
Wasko, Margery Lynn Bronxville, N.Y. *B.A., Mount Holyoke, 1977*
Weidenbaum, Mark Waterford, Conn. *B.S., Connecticut, 1977*
Weinstein, Beth New York, N.Y. *B.A., Wesleyan, 1974*
Weinstock, Martin Arthur Bayside, N.Y. *B.A., Williams, 1977*

Weiss, Michael Jay Riverdale, N.Y. *B.Sc., Bar-Ilan, 1972*
Williams, John Vincent Brooklyn, N.Y. *B.S., City College of New York, 1977*
Wilson, Scott Numo New York, N.Y. *B.A., Princeton, 1977*
Wiseman, Gloria Diana New York, N.Y. *B.S., City College of New York, 1977*
Wood, Charles Macdonald Tenafly, N.J. *B.S., Denison, 1976*
Yannopoulos, Aristomenis D. Garden City, N.Y. *B.A., Harvard, 1977*
Yepes, Martha Cecilia New York, N.Y. *B.A., Barnard, 1977*
Young, Grace May-En Fairlawn, N.J. *B.A., Radcliffe, 1977*
Younger, David Steven Great Neck, N.Y. *B.S., Michigan, 1976*
Zahl, Kenneth J. Bronx, N.Y. *B.A., New York University, 1977*
Zinberg, Joel Michael New York, N.Y. *B.A., Swarthmore, 1977*
Zinberg, Jonathan Brooklyn, N.Y. *B.S., Brooklyn, 1977*
Zola, Benjamin Elia West Hartford, Conn. *B.A., B.S., Harvard, 1977*
Zollo, Kenneth Allen Farmingdale, N.Y. *B.S., SUNY (Stony Brook), 1977*

Student Roster: Class of 1982

Abrams, Elaine Janine Brooklyn, N.Y. *B.S., Princeton, 1978*
Absatz, Michael Glenn Plainview, N.Y. *B.E.S., Johns Hopkins, 1978*
Adler, Frederick William New York, N.Y. *B.S., Columbia, 1978*
Aldoroty, Robert Arthur Bayside, N.Y. *B.A., Pennsylvania, 1976; M.A., Columbia, 1978*
Almquist, Robert Earl Bergen, N.Y. *B.S., Yale, 1978*
Amchin, Jess David Farmingdale, N.Y. *B.A., Cornell, 1978*
Andrew, Susan Louise Easthampton, Mass. *Sc.B., Brown, 1976*
Aranoff, Jonathan Neil Brooklyn, N.Y. *B.A., Columbia, 1978*
Beekman, Karen Press Brooklyn, N.Y. *B.A., Barnard, 1978*
Bellin, Eran Yitzchak Brooklyn, N.Y. *B.A., Harvard, 1978*
Bernstein, Guy Thomas Short Hills, N.J. *B.A., Brown, 1978*
Bezier, Jeffrey Lee Peshtigo, Wis. *B.A., Princeton, 1978*
Birkenbach, Mark Philip Kildeer, Ill. *B.A., Harvard, 1978*
Blackwell, Thomas Keith Greenville, S.C. *B.S., Duke, 1978*
Boruchoff, Susan Elise Newton Centre, Mass. *B.A., Radcliffe, 1977*
Brauser, Steven Donald Woodbury, N.Y. *B.A., Harvard, 1978*
Brenner, Gail Monsey, N.Y. *B.S., City College, 1978*
Brigham, Steven Chase Toledo, Ohio *B.S., Massachusetts Institute of Technology, 1978*
Brooks, Robert Louis Sharpsburg, Md. *B.S., Massachusetts Institute of Technology, 1974; M.S., Maryland, 1976; Ph.D., Maryland, 1978*
Brown, Florence M. Evanston, Ill. *B.A., Columbia, 1978*
Bryk, Eli New York, N.Y. *B.A., Columbia, 1978*
Buchness, Mary Ruth Catonsville, Md. *B.A., Harvard, 1978*
Burns, Elisa Eve Bethpage, N.Y. *B.A., Colgate, 1978*
Cammisa, Frank P. Waterbury, Conn. *B.S., Tufts, 1978*
Campbell, Susan Elizabeth New York, N.Y. *B.A., Barnard, 1975*
Cantor, Michael Cary Massapequa, N.Y. *B.A., Harvard, 1978*
Cherup, Lori Lyn Pittsburgh, Pa. *B.A., Princeton, 1976*
Chua, Streamson, C. Kingston, N.Y. *B.A., Johns Hopkins, 1978*
Clair, Darren Francis New York, N.Y. *B.A., Princeton, 1976*
Cody, William Collins Mountain Lakes, N.J. *B.A., Dartmouth, 1978*
Cohen, Jeffrey Lewis Forest Hills, N.Y. *B.A., Johns Hopkins, 1978*
Dash, Greg I. Cedarhurst, N.Y. *B.A., Princeton, 1978*
del Alcazar, Carlos Oscar North Bergen, N.J. *B.A., Columbia, 1978*
Delfs, Richard Michael Tucson, Ariz. *B.A., Arizona, 1976*
Derby, James Alan Schuylerville, N.Y. *B.S., SUNY (Albany), 1978*

Dermody, Terence Shawn Ithaca, N.Y. *B.S., Cornell, 1978*
Delvin, Michael James Bardonia, N.Y. *B.A., Princeton, 1978*
Downey, Susan E. New York, N.Y. *B.A., Smith, 1978*
Doyle, Werner Karim Port Jefferson Station, N.Y. *B.S., SUNY (Stony Brook), 1978*
Durand, David Bradley Rochester, N.Y. *B.A., Dartmouth, 1978*
Easton, Jonathan New York, N.Y. *B.A., Columbia, 1978*
Endow, Curtis S. Stockton, Calif. *B.A., California (Berkeley), 1977*
Endrizzi, Donald Peter Brooklyn, N.Y. *B.A., Columbia, 1978*
Fabiano, Fredric Boston, Mass. *B.S., Boston, 1978*
Feinberg, Richard Ira Woodmere, N.Y. *B.A., Trinity, 1977*
Fiero, Thomas Patrtick Brooklyn, N.Y. *B.A., Columbia, 1977*
Fletcher, Christopher Wallace Wellesley, Mass. *B.A., Wesleyan, 1978*
Formichella, Donna Jean Bridgeport, Conn. *B.S., Providence, 1978*
Frank, David Lawrence Meadowbrook, Pa. *B.A., Williams, 1978*
Gelbfish, Gary Alexander Brooklyn, N.Y. *B.S., Brooklyn, 1978*
Gilchrist, Ian Charles Chappaqua, N.Y. *B.A., Dartmouth, 1978*
Gomez, William New York, N.Y. *B.S., Polytechnic Institute of Brooklyn, N.Y., 1976*
Grant, Gail Patrice Charleston, S.C. *B.A., Yale, 1978*
Greenberg, Steven Marc Flushing, N.Y. *B.A., Harvard, 1978*
Gresalfi, Thomas John Lake Grove, N.Y. *B.S., SUNY (Stony Brook), 1978*
Griswold, Jonathan DeWitt Stratford, Conn. *B.S., M.S., Yale, 1978*
Harmon, Valerie Lorraine Philadelphia, Pa. *B.A., Brown, 1978*
Harrington, William Neelis Great Neck, N.Y. *B.A., Columbia, 1974*
Hart, Craig Parsippany, N.J. *B.A., Pennsylvania, 1973*
Honig, Peter K. Bellerose, N.Y. *B.A., Columbia, 1978*
Hutt, Douglas Allen Irvington, N.Y. *B.A., Columbia, 1978*
Jabs, Kathy Lee Bristol, Conn. *B.S., Trinity, 1978*
Jackness, Emily New York, N.Y. *B.A., Barnard, 1978*
Karasik, Pamela Ellen Old Westbury, N.Y. *B.A., Barnard, 1978*
Kessler, Paul David New York, N.Y. *B.S., Pittsburgh, 1976*
King, Dennis K. Daytona Beach, Fla. *B.A., Middlebury, 1978*
Knoll, Charles L. Brooklyn, N.Y. *B.S., Brooklyn, 1978*
Krauss, Eugene Steven Old Westbury, N.Y. *B.S., Columbia, 1978*
Krug, Joseph Hoffmann Englewood, N.J. *B.A., Johns Hopkins, 1978*
Levens, David Jon Newton Centre, Mass. *B.S., Massachusetts Institute of Technology, 1978*
Levenson, Risa Catherine New York, N.Y. *B.A., Radcliffe, 1978*
Li, Suzanne C. Rosyln, N.Y. *B.S., Yale, 1978*
Licht, Jonathan Daniel Jackson Heights, N.Y. *B.S., SUNY (Stony Brook), 1978*
Lobel, Leslie Israel New York, N.Y. *B.A., Columbia, 1978*
Low, Julie Ann Belmont, Mass. *B.A., Rochester, 1975*
Lustbader, Ian Jay New York, N.Y. *B.S., City College, 1978*
Lynn, Richard Brian Great Neck, N.Y. *B.A., Columbia, 1978*
McCormick, Paul Christian Rockville, Md., *B.A., Columbia, 1978*
Margolis, Steven Fred Rego Park, N.Y. *B.A., New York University, 1974*
Markowitz, John New York, N.Y. *B.A., Columbia, 1976; M.A., 1978*
Martin, Steven Carey Plainview, N.Y. *B.A., Harvard, 1978*
Marzuk, Peter Michael New York, N.Y. *Sc.B., Brown, 1978*
Mastropolo, Rosalie Mary Eastchester, N.Y. *B.S.N., Rochester, 1976*
Mazzocchi, Annmarie Bronx, N.Y. *B.S., Manhattan, 1978*
Mehalek, Karen Edith Huntington Station, N.Y. *B.S., Cornell, 1978*
Mellstrom, Mark Stanley North Mankato, Minn. *B.A., Carleton, 1978*
Mercurio, Mark Randolph Ridgefield, Conn. *B.A., Princeton, 1978*
Mirski, Anna Marie Brooklyn, N.Y. *B.S., St. John's, 1978*

Mitchell, Alfred Ernest Staten Island, N.Y. *B.A., Lafayette, 1978*
Moffat, Gertrude Seidel Cold Spring Harbor, N.Y. *B.A., Brown, 1977*
Monasky, Mark Stephen Binghamton, N.Y. *B.A., SUNY (Potsdam), 1978*
Moscona, Anne Chicago, Ill. *B.A., Radcliffe, 1978*
Muller, Adrienne Louise Bronx, N.Y. *B.A., Brown, 1978*
Norton, Janet E. Philadelphia, Pa. *B.A., Pennsylvania, 1978*
Nussbaum, Monte Jay Flushing, N.Y. *B.S., Columbia, 1978*
Oesterling, Joseph Edwin Greensburg, Ind. *B.A., Columbia, 1978*
Olson, Stephen Eric Cooperstown, N.Y. *B.A., Hamilton, 1978*
Paul, Edward Mark Hicksville, N.Y. *B.A., Harvard, 1978*
Pennoyer, Marguerite Anne Portland, Maine *B.A., Smith, 1978*
Perez, Wilfredo De La C. Miami, Fla. *B.A., Harvard, 1978*
Pfeffer, Deborah Lynn New York, N.Y. *B.A., Barnard, 1978*
Philips, Mark Reid Scarsdale, N.Y. *B.A., Harvard, 1978*
Plotycia, Steven Michael Eggertsville, N.Y. *B.S., State University of New York (Buffalo), 1978*
Porder, Joseph Bernard New York, N.Y. *B.A., Bennington, 1978*
Price, Helen L. Summit, N.J. *B.S., Yale, 1978*
Quarmby, Robert Altamont, N.Y. *B.S., SUNY (Stony Brook), 1974; M.S., Rensselaer Polytechnic Institute, 1978*
Quartararo, Christopher Huntington, N.Y. *B.A., Columbia, 1978*
Rini, Frank John New York, N.Y. *B.A., New York University, 1974; M.A., Columbia, 1976; M.Phil., 1977; Ph.D., 1978*
Robbins, Peter Howard Fairlawn, N.J. *B.A., Hamilton, 1978*
Robbins, Philip Alan Great Neck, N.Y. *B.S., Massachusetts Institute of Technology, 1978*
Rodriguez, Jaime Brooklyn, N.Y. *B.A., Columbia, 1978*
Rodriguez, Rolando Francisco Weehawken, N.J. *B.A., Columbia, 1978*
Rosenblatt, Marc A. New York, N.Y. *B.A., Harvard, 1978*
Rosenzweig, Seth Edward Freeport, N.Y. *B.S., Yale, 1978*
Rottman, Jeffrey Nathan Berkeley, Calif. *B.A., Princeton, 1976*
Ruzal-Shapiro, Carrie Brenda Brooklyn, N.Y. *B.A., Princeton, 1978*
Salamone, Ronald Jerry East Brunswick, N.J. *B.S., Stanford, 1977*
Sanchez-Lluberas, Jorge A. Santurce, Puerto Rico *B.S., University of Puerto Rico, 1978*
Schlaff, Anthony Lewis New York, N.Y. *B.A., Yale, 1978*
Schneider, Peter Andrew Hamburg, N.Y. *B.A., Amherst, 1977*
Schulder, Michael Brooklyn, N.Y. *B.A., Columbia, 1978*
Sealfon, Stuart C. Neponsit, N.Y. *B.A., Princeton, 1978*
Sehgal, Evan David Chevy Chase, Md. *B.A., Harvard, 1978*
Shaffer, David Great Neck, N.Y. *B.A., Yale, 1978*
Shaffer, Nathan New York, N.Y. *B.A., Yale, 1975*
Sharp, Barbara Lea San Francisco, Calif. *B.A., Yale, 1976*
Sheinbaum, Roy Jonathan Woodmere, N.Y. *B.Sc., McGill, 1978*
Simkowitz, Philip New York, N.Y. *B.S., Beloit, 1975*
Sklar, Jeffrey Alan Laurelton, N.Y. *B.S., SUNY (Stony Brook), 1978*
Skowron, Gail East Northport, N.Y. *B.S., Muhlenberg, 1978*
Smith, Andre Leo New York, N.Y. *B.A., Williams, 1978*
Smith, Mary Camden, N.Y. *B.S., Houghton, 1978*
Stevenson, Ellen Marie New York, N.Y. *B.A., Barnard, 1977*
Strongin, Jonathan David New York, N.Y. *M.A., Columbia, 1974*
Sullivan, John Keane New York, N.Y. *B.A., Holy Cross, 1969; J.D., School of Law, Fordham, 1972*
Sultan, Mark Brooklyn, N.Y. *B.A., Brandeis, 1978*
Suser, Ezra Saul Hastings-on-Hudson, N.Y. *B.A., Columbia, 1974*
Toxin, Frances Marks New Rochelle, N.Y. *B.S., Fairleigh Dickinson, 1978*

Tong, Dominic Jun Fai Honolulu, Hawaii *B.S., Hawaii (Monoa), 1978*
Usatine, Richard Philip Nanuet, N.Y. *B.A., Williams, 1978*
Veenema, Kenneth Roy Glenrock, N.J. *B.S., Cornell, 1977*
Vita, Joseph Andrew Katonah, N.Y. *B.S., Yale, 1978*
Wasserman, Hal Stuart Springfield, N.J. *B.A., Johns Hopkins, 1978*
Wellisz, Tadeusz Zbigniew New York, N.Y. *B.A., Chicago, 1977*
Whelan, Richard Lawrence Franklin Square, N.Y. *B.S., Fordham, 1978*
Wolff, David Marc New York, N.Y. *B.S., SUNY (Albany), 1977*
Wolfson, Steven Jay Valley Stream, N.Y. *B.S., Yale, 1978*
Yorke, Eric Robert Brooklyn, N.Y. *B.S., SUNY (Stony Brook), 1978*
Zeralsky, Sandra Joan Pearl River, N.Y. *B.A., SUNY (Stony Brook), 1978*

Student Roster: Class of 1983

Alonso, Jose Jr. Astoria, N.Y. *B.A., Columbia, 1979*
Andersen, Rolf Leon Suffern, N.Y. *B.S., Harvard, 1979*
Arliss, Jeffrey James Locust, N.J. *B.S., Vermont, 1978*
Bar, Michael Henry New York, N.Y. *B.A., Johns Hopkins, 1979*
Baran, Syma Deborah Levittown, N.Y. *B.A., Barnard, 1979*
Bass, Allyson Brackett Oakland, Calif. *B.A., California (Berkeley), 1975*
Bauer, R. David Elmhurst, N.Y. *B.A., Columbia, 1979*
Beck, Marc Lloyd New Hyde Park, N.Y. *B.A., Clark, 1979*
Ben-Zvi, Jeffrey S. Brooklyn, N.Y. *B.S., Brooklyn, 1979*
Black, Alexander Charlton Wellesley, Mass. *B.S., Harvard, 1979*
Bobella, Stephen Kurt Hackensack, N.J. *B.A., Drew, 1979*
Bonner, Matthew Kip Georgetown, Conn. *B.A., Cornell, 1979*
Boos, Stephen Charles Huntington Sta., N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Breidbart, Scott Eric Scarsdale, N.Y. *B.A., Yale, 1976*
Brill, David Alan New York, N.Y. *B.A., Princeton, 1979*
Bush, James William Cherry Hill, N.J. *B.A., Rutgers, 1979*
Cahill, Peter duPont Philadelphia, Pa. *B.A., Pennsylvania, 1979*
Camacho, Victor Emanuel Bronx, N.Y. *B.S., Columbia, 1979*
Camerino, Vicki Jean Larchmont, N.Y. *B.A., Dartmouth, 1978*
Carpenter, Richard Owen Cedarhurst, N.Y. *B.S., Duke, 1979*
Caselli, Richard John Bayside, N.Y. *B.A., Columbia, 1979*
Chalfin, Laura B. New York, N.Y. *B.A., SUNY (Stony Brook), 1970*
Chen, William Kuang-Yu New York, N.Y. *B.A., Columbia, 1978*
Christopher, Kenneth Bronx, N.Y. *B.A., Pennsylvania, 1978*
Chu, Thomas Gerald Garden City, N.Y. *B.A., Brown, 1979*
Davidson, Peter Killip Rochester, N.Y. *B.A., Haverford, 1977*
Davitz, Michael Andrew New York, N.Y. *B.A., Yale, 1978*
Desser, Terry Susan Beechhurst, N.Y. *B.A., Princeton, 1979*
Dillon, John Joseph Yorktown Hts., N.Y. *B.S., Massachusetts Institute of Technology, 1978*
Donnenberg, Michael Seth Levittown, N.Y. *B.S., SUNY (Albany), 1979*
Drooker, Martin Allen Brooklyn, N.Y. *B.S., Yale, 1979*
Duralde, Xavier A. East Point, Ga. *B.A., Harvard, 1979*
Dushay, Kevin Maier Fayetteville, N.Y. *B.A., Brown, 1979*
Eaton, Bradford Hunter Pelham, N.Y. *B.A., Dartmouth, 1979*
Emanuel, Guy Mac Brooklyn, N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Erly, William Kenneth Short Hills, N.J. *B.A., Haverford, 1978*
Eskenazi, Loren Beth New York, N.Y. *B.A., Pennsylvania, 1978*
Feind, Carl Robert Alpine, N.J. *B.S., Antioch, 1979*
Feldmann, Edward Ft. Lauderdale, Fla. *B.A., Cornell, 1979*

Felix, Alan David New Hyde Park, N.Y. *B.A., Haverford, 1979*
Fiorito, Joseph John New York, N.Y. *B.A., Columbia, 1979*
Fisher, Margaret Elizabeth Haddonfield, N.J. *B.A., Princeton, 1979*
Florakis, George James Yonkers, N.Y. *B.A., Columbia, 1979*
Freilich, David Ira Brooklyn, N.Y. *Brooklyn College*
Friedman, David Paul Brooklyn, N.Y. *B.A., Columbia, 1979*
Gaines, Alan David Randolph, Mass. *B.S., Massachusetts Institute of Technology, 1979*
Garbowit, David Labe Pittsfield, Mass. *B.S., Union, 1979*
Genecin, Paul Baltimore, Md. *B.A., Princeton, 1977*
Glatt, Aaron Eli Brooklyn, N.Y. *B.A., Yeshiva, 1979*
Gliedman, Paul R. Wallkill, N.Y. *B.S., Manhattan, 1979*
Goldberg, Neal Benjamin Hartsdale, N.Y. *B.A., Johns Hopkins, 1979*
Goldman, Myla P. Bronx, N.Y. *B.A., Pennsylvania, 1979*
Goldstein, Michael D. Smithtown, N.Y. *B.S., SUNY (Stony Brook), 1979*
Gomez, Yvonne Brooklyn, N.Y. *B.A., Princeton, 1979*
Gonzalez, Christopher Lewis Claremont, Calif. *B.A., Pitzer, 1979*
Gonzalez, Victoria Mary Claremont, Calif. *B.A., California State (San Francisco), 1979*
Green, Nancy Sue Wabon, Mass. *B.S., Tufts, 1979*
Gutowski, Teddy Forest Hills, N.Y. *B.A., Queens, 1979*
Hanau, Lawrence Huto Bayside, N.Y. *B.A., Columbia, 1979*
Hildreth, James Earl Camden, Ark. *B.A., Harvard, 1979*
Holland, Steven Matthew Scarsdale, N.Y. *B.A., St. John's, 1979*
Ingram, David Lloyd Somerset, N.J. *B.A., Columbia, 1979*
Jaffe, Mark D. Cherry Hill, N.J. *B.A., Princeton, 1978*
Johnston, Maria Milagros Bergenfield, N.J. *B.A., Barnard, 1979*
Jones, Leon D. Rome, N.Y. *B.A., Dartmouth, 1979*
Kalb, Thomas Heller Palm Beach, Fla. *B.A., Princeton, 1979*
Kamer, Russell Scott New Rochelle, N.Y. *B.A., Williams, 1979*
Kaplan, Sondra Denise New York, N.Y. *B.S., Lehman, 1978*
Karas, Steven Peter Brooklyn, N.Y. *B.A., Columbia, 1979*
Kastelman, James Steven Cranford, N.J. *B.S., Princeton, 1979*
Keller, Wendy A. New York, N.Y. *B.A., Barnard, 1975*
Klapper, Robert C. Far Rockaway, N.Y. *B.A., Columbia, 1979*
Koehler, Susan Ellen Clarence, N.Y. *B.A., Mt. Holyoke, 1979*
Konecky, Alan Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Kriger, Alberto Isaac Rio Piedras, P.R. *B.A., Brandeis, 1979*
Landry, Donald William Cambridge, Mass. *B.S., Lafayette, 1975*
Landzberg, Joel Serge Whitestone, N.Y. *B.A., Columbia, 1979*
Lederman, Seth Michael New York, N.Y. *B.A., Princeton, 1979*
Letsou, George Vasilios Lowell, Mass. *B.A., Harvard, 1979*
Linfield, Louis S. II San Francisco, Calif. *B.A., Harvard, 1977*
Loomis, Karen Jay White Plains, N.Y. *B.S., Yale, 1977*
Lopez, Rafael Roberto New York, N.Y. *B.A., Columbia, 1979*
Luppescu, Neal Edwin Roslyn, N.Y. *B.A., Dartmouth, 1979*
Lustick, Martin Ross Watertown, N.Y. *B.A., Cornell, 1978*
Lytton, William Winzer Scarsdale, N.Y. *B.A., Harvard, 1978*
McCord, Mary Marshall New York, N.Y. *B.A., Williams, 1978*
Macfarlane, Michael Thomas New York, N.Y. *B.A., Long Island (C.W. Post), 1975*
Mandel, Michael New York, N.Y. *B.A., Columbia, 1979*
Manley, John C. North Port, N.Y. *B.S., California Institute of Technology, 1977*
Matathias, Daniel J. Long Island City, N.Y. *B.A., Columbia, 1979*
Matos, Sergio E. New York, N.Y. *B.S., City College of New York, 1979*
Melfi, Robert Joseph Wood-Ridge, N.J. *B.S., Creighton, 1979*
Muello, Karin Ann New York, N.Y. *B.A., Bryn Mawr, 1973*
Munro, Virginia Schaefer New York, N.Y. *B.S., Columbia, 1979*

Neuberg, Gerald Walter Tenafly, N.J. *B.A., Princeton, 1979*
Okun, Alexander Lawrence New York, N.Y. *B.S., Yale, 1979*
Ostrow, Steven Mark Baldwin, N.Y. *B.A., Brown, 1979*
Paek, In-Bok Flushing, N.Y. *B.A., Barnard, 1979*
Pastor, Patricia Camuto Rochester, N.Y. *B.A., Hofstra, 1976*
Perkins, Archibald Simon Williamstown, Mass. *B.A., Williams, 1979*
Perlmutter, Jeffrey Alan Huntington, N.Y. *B.S., Yale, 1979*
Peterson, Mark William Fort Collins, Colorado *B.S., Colorado State, 1979*
Petko, Lawrence Joseph Succasunna, N.J. *B.A., Chicago, 1979*
Phillips, Bruce A. Newton, Mass. *B.A., Wesleyan, 1978*
Pierson, Richard Norris III Englewood, N.J. *B.A., Princeton, 1978*
Pollak, Emil Martin Jr. Old Tappan, N.J. *B.A., Dartmouth, 1979*
Pollak, Jeffrey Scott New York, N.Y. *B.A., Columbia, 1979*
Quinn, Thomas Joseph Wantagh, N.Y. *B.S., SUNY (Stony Brook), 1979*
Rampil, Ira Jay Flushing, N.Y. *B.E.S., SUNY (Stony Brook), 1975*
Randolph, Paula Ann Bronx, N.Y. *B.S., Harvard, 1979*
Readling, Maris Anne Oswego, N.Y. *B.A., Bryn Mawr, 1979*
Retikas, Anthony Demetrios Akron, Ohio *B.A., Johns Hopkins, 1979*
Rice, Louis Bernard Garden City, N.Y. *B.A., Harvard, 1977*
Rich, Thomas Jonathan Flourtown, Pa. *B.S., Bucknell, 1979*
Ring, Wendy Susan Coral Gables, Fla. *B.S., Yale, 1979*
Roberts, William Gary Purchase, N.Y. *B.A., Harvard, 1979*
Rochester, Carolyn Lee Charlottesville, Va. *B.A., Smith, 1979*
Rosenthal, Jonathan Harry New York, N.Y. *B.A., Harvard, 1973*
Sacks, Andrew Jay New York, N.Y. *B.A., New College, 1975*
Saiman, Lisa Great Neck, N.Y. *B.A., Cornell, 1977*
Saver, Barry Gordon Cambridge, Mass. *B.S., Yale, 1976*
Schlesinger, Gail Michele Roslyn, N.Y. *B.A., Pennsylvania, 1978*
Schoifet, Scott David Somerset, N.J. *B.A., Cornell, 1979*
Seldin, David Cary Rochester, N.Y. *B.A., Harvard, 1978*
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Zigelman, Charles Z. Woodmere, N.Y. *B.A., Queens (CUNY), 1979*

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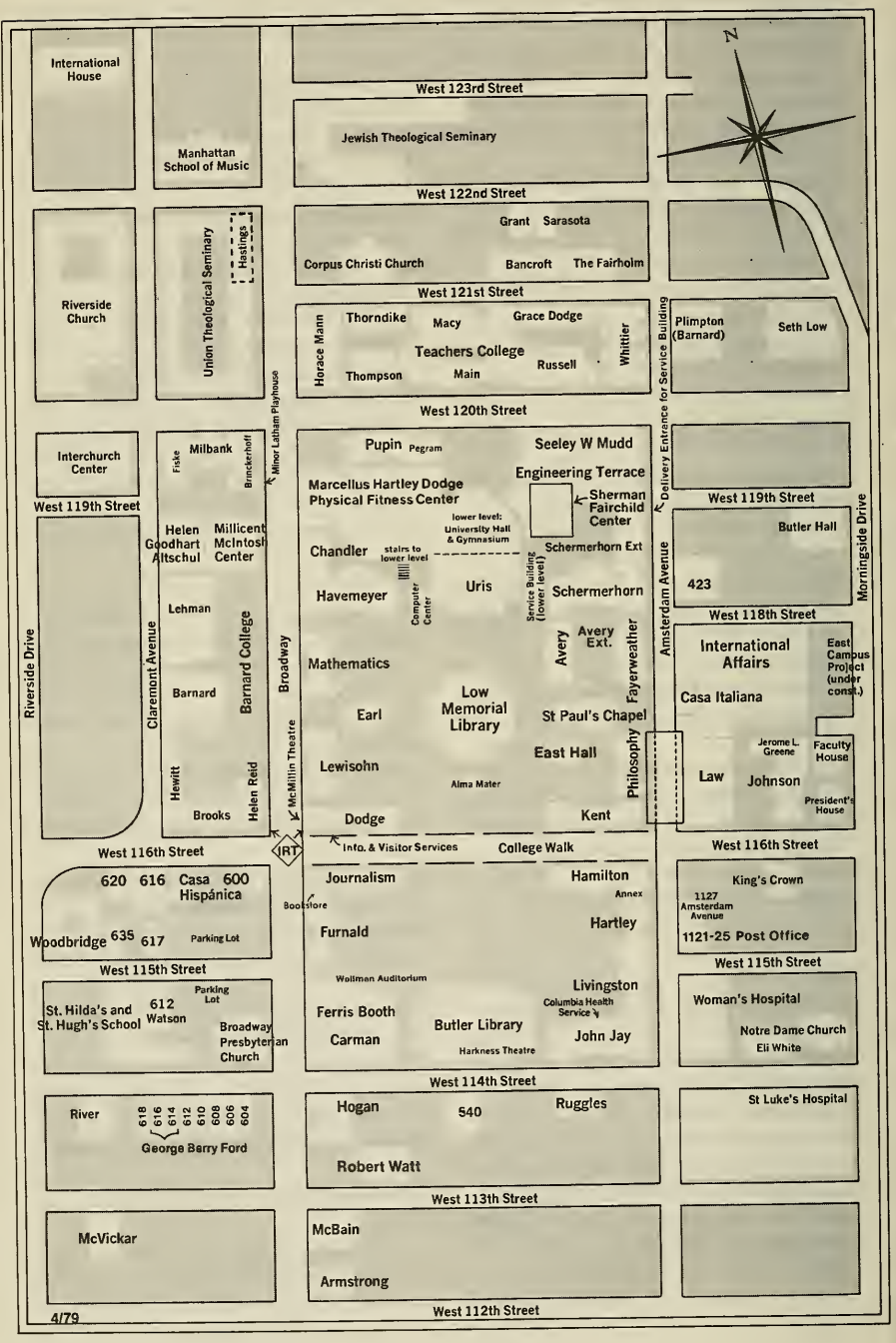
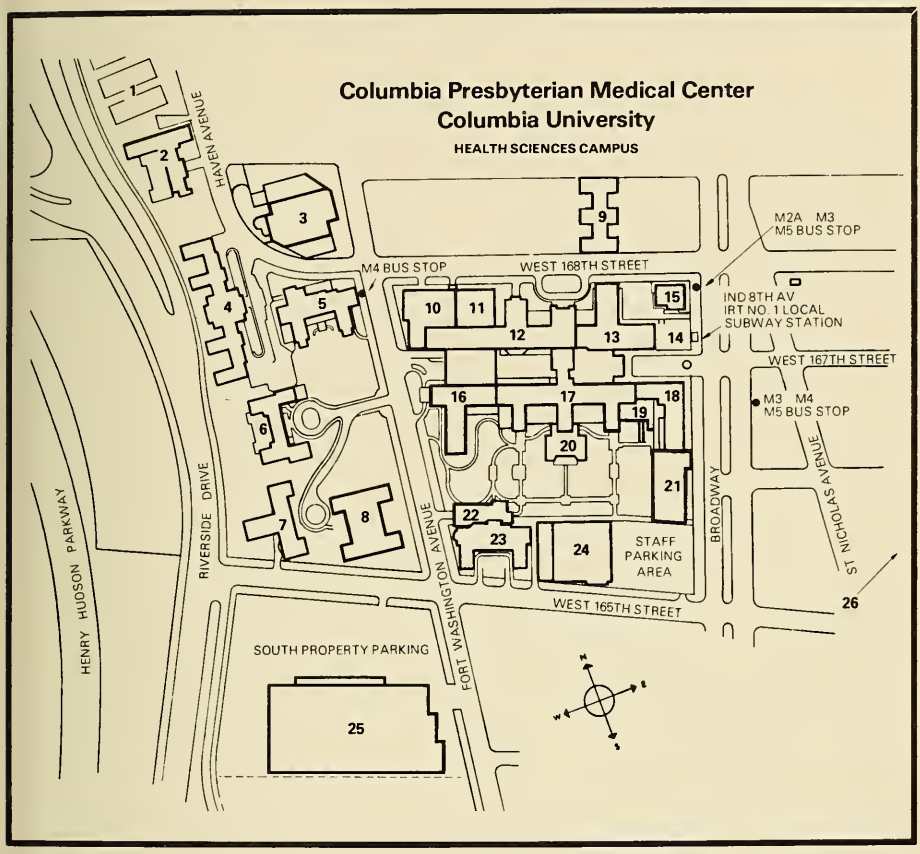
House number: 9533-301

The Morningside Campus & Environs





11 Alumni Auditorium
3 Augustus Long Library
8 Dana W. Atchley Pavilion
18 The Babies Hospital
21 Babies Hospital Research, Teaching, and Office Addition
2 Bard Hall Medical Student Residence
1 Bard Haven Towers
10 William Black Medical Research Building
3 Cancer Center/Institute of Cancer Research
24 Central Service Building
12 College of Physicians and Surgeons
26 Center for Community Health Systems

13 School of Dental and Oral Surgery
9 Georgian Nurses Residence
22 Edward S. Harkness Eye Institute
23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
3 Julius and Armand Hammer Health Sciences Center
3 Institute of Human Nutrition
2/12 International Institute for the Study of Human Reproduction

6 Anna C. Maxwell Hall, School of Nursing Residence
5 The Neurological Institute of New York
6 School of Nursing
25 Parking facilities
17 Presbyterian Hospital
New York Orthopedic Hospital
Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
15 School of Public Health
19 Radiotherapy Center
13 Vanderbilt Clinic
14 Vanderbilt Clinic Addition

The Faculty of Medicine
COLLEGE OF PHYSICIANS
& SURGEONS

Columbia University Bulletin

1980-1981

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Major Religious Holidays

For a statement of University policy on absence for the observance of religious holidays see *Admission, Registration, and Expenses*—Attendance.

JUNE

23-27 Monday-Friday.* Registration for fourth-year students.

23 Monday, through July 3, Thursday.* Registration for third-year students.

JULY

1 **Tuesday. Academic year begins for fourth-year students.**

4 **Friday. Independence Day. Holiday for fourth-year students.**

7 Monday. Major Clinical Year begins for third-year students.

AUGUST

1 Friday.† Last day to apply or reapply for all degrees to be conferred in October (see September 4).

18-22 Monday-Friday. Optional early registration for second-year students.

28 Thursday.* Registration for first-year students.

29 Friday.* Registration for second-year students.

SEPTEMBER

1 **Monday. Labor Day. Holiday for third- and fourth-year students.**

2 **Tuesday. Academic year begins for first- and second-year students.**

4 Thursday. Last day to file *late* applications for October degrees.

OCTOBER

22 **Wednesday. Award of October degrees.**

31 Friday.† Last day to apply or reapply for all degrees to be conferred in January (see December 5).

NOVEMBER

4 **Tuesday. Election Day. Holiday for first- and second-year students.**

27-28 **Thursday–Friday. Thanksgiving holidays for first-, second-, and third-year students.**

DECEMBER

5 Friday. Last day to file *late* applications for January degrees.

20 **Saturday, through January 4, 1981, Sunday. Vacation for first-, second-, and third-year students.**

**Students allowed to register after the period specified must pay a late fee.*
†Students who apply after this date must pay a late fee.

JANUARY

9 Friday. First semester ends for first-year students.

12 Monday. Second semester begins for first-year students.

21 **Wednesday. Award of January degrees.**

FEBRUARY

16 **Monday. Washington's Birthday. Holiday for first- and second-year students.**

16 Monday.* Last day to apply or reapply for all degrees to be conferred in May (see March 30).

MARCH

21 **Saturday, through March 29, Sunday. Vacation for second-year students.**

30 Monday. Last day to file *late* applications for May degrees.

APRIL

7-8 **Tuesday-Wednesday. National Boards Part II for students failing September 23-24 exam.**

29 Wednesday. Dean's Day for Medical Student Research.

MAY

13 **Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.**

25 **Monday. Memorial Day. Holiday for first-, second-, and third-year students.**

30 **Saturday, through June 10, Wednesday. Study period for second-year students.**

JUNE

5 Friday. Second semester ends for first-year students.

9-10 **Tuesday–Wednesday. National Boards Part I for second-year students.**

11 **Thursday, through July 5, Sunday. Vacation for second-year students.**

19 Major Clinical Year concludes for third-year students.

JULY

1 Elective curriculum begins for third-year students.

6 Major Clinical Year begins for second-year students.

Dates of National Board Exams

Part I	September 3-4, 1980. Not given at P&S. June 9-10, 1981. Required by P&S.
Part II	September 23-24, 1980. Required by P&S. April 7-8, 1981. Not given at P&S.

Students who apply after this date must pay a late fee.

The Faculty of Medicine

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JOANNE STEPHAN, Sc.D. *Director of Allied Health Programs*

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JOHN J. CONLEY. *Professor Emeritus of Clinical Otolaryngology*

WILFRED M. COPENHAVER. *Professor Emeritus of Anatomy*

ANDRE F. COURNAND. *Professor Emeritus of Medicine*

DAVID COWEN. *Professor Emeritus of Neuropathology*

GEORGE F. CRIKELAIR. *Professor Emeritus of Clinical Surgery*

EDWARD C. CURNEN, Jr. *Carpentier Professor Emeritus of Pediatrics*

ROBERT C. DARLING. *Simon Baruch Professor Emeritus of Rehabilitation Medicine*

ELIZABETH B. DAVIS. *Professor Emeritus of Clinical Psychiatry*

D. ANTHONY D'ESOPO. *Professor Emeritus of Clinical Obstetrics and Gynecology*

A. GERARD DeVOE. *Harkness Professor Emeritus of Ophthalmology*

ZACHARIAS DISCHE. *Professor Emeritus of Biochemistry*

HERBERT O. ELFTMAN. *Professor Emeritus of Anatomy*

JOSE M. FERRER, JR. *Professor Emeritus of Surgery*

JOHN W. FERTIG. *Professor Emeritus of Biostatistics*

THOMAS D. FLEMING. *Professor Emeritus of Library Science*

CHARLES A. FLOOD. *Professor Emeritus of Clinical Medicine*

GOODWIN L. FOSTER. *Professor Emeritus of Biochemistry*

CHARLES L. FOX, Jr. *Professor Emeritus of Microbiology (in Surgery)*

ELIZABETH S. GILL. *Professor Emeritus of Nursing*

LEONARD J. GOLDWATER. *Professor Emeritus of Occupational Medicine*

HARRY GRUNDFEST. *Professor Emeritus of Neurology*

RUTH J. GUTTMANN. *Professor Emeritus of Radiology*

CUSHMAN D. HAAGENSEN. *Professor Emeritus of Clinical Surgery*

MICHAEL HEIDELBERGER. *Professor Emeritus of Immunochemistry*

PAUL F. A. HOEFER. *Professor Emeritus of Neurology*

GEORGE H. HUMPHREYS II. *Mott Professor Emeritus of Surgery*

HAROLD W. JACOX. *Professor Emeritus of Radiology*

MAXWELL KARSHAN. *Professor Emeritus of Biochemistry*

AARON KARUSH. *Professor Emeritus of Clinical Psychiatry*

FORREST E. KENDALL. *Professor Emeritus of Biochemistry*

LAWRENCE C. KOLB. *Professor Emeritus of Psychiatry*

RAPHAEL LATTES. *Professor Emeritus of Surgical Pathology*

JOHN K. LATTIMER. *Professor Emeritus of Urology*

FERDINAND F. McALLISTER. *Professor Emeritus of Clinical Surgery*

RUSTIN McINTOSH. *Carpentier Professor Emeritus of Pediatrics*

RICHARD L. MASLAND. *Merritt Professor Emeritus of Neurology*

AUBRE MAYNARD. *Clinical Professor Emeritus of Surgery*

MEYER M. MELICOW. *John L. Given Professor Emeritus of Urology*

GEORGE R. MERRIAM, JR. *Professor Emeritus of Clinical Ophthalmology*

FREDERICK A. METTLER. *Professor Emeritus of Anatomy*

KARL MEYER. *Professor Emeritus of Biochemistry*

LESTER A. MOUNT. *Professor Emeritus of Clinical Neurological Surgery*

MARGARET R. MURRAY. *Professor Emeritus of Anatomy*

DAVID NACHMANSOHN. *Professor Emeritus of Biochemistry*

PHILLIP O. POLATIN. *Professor Emeritus of Clinical Psychiatry*

J. LAWRENCE POOL. *Professor Emeritus of Neurological Surgery*

EDITH H. QUIMBY. *Professor Emeritus of Radiology (Physics)*

HERBERT RACKOW. *Professor Emeritus of Anesthesiology*

HARRY M. ROSE. *Borne Professor Emeritus of Microbiology*

EDWARD B. SCHLESINGER. *Byron Stookey Professor Emeritus of Neurological Surgery*

WILLIAM H. SEBRELL, Jr. *Williams Professor Emeritus of Nutrition*

BEATRICE C. SEEGAL. *Professor Emeritus of Microbiology*

LAWRENCE W. SLOAN. *Professor Emeritus of Clinical Surgery*

ALAN DeF. SMITH. *Professor Emeritus of Orthopedic Surgery*

HAMILTON SOUTHWORTH. *Professor Emeritus of Clinical Medicine*

WARREN M. SPERRY. *Professor Emeritus of Biochemistry*

DAVID SPRINSON. *Professor Emeritus of Biochemistry*

LEO SROLE. *Professor Emeritus of Clinical Social Sciences in Psychiatry*

HERBERT C. STOERK. *Professor Emeritus of Pathology*

FRANK E. STINCHFIELD. *Professor Emeritus of Orthopedic Surgery*

HOWARD C. TAYLOR, Jr. *Rappleye Professor Emeritus of Obstetrics and Gynecology*

CARMEN T. VICALE. *Professor Emeritus of Clinical Neurology*

JULES G. WALTNER. *Professor Emeritus of Clinical Otolaryngology*

SHIH-CHUN WANG. *Pfeiffer Professor Emeritus of Pharmacology*

SIDNEY C. WERNER. *Professor Emeritus of Clinical Medicine*

SAMUEL M. WISHIK. *Professor Emeritus of Public Health (Public Health Practice)*

ABNER WOLF. *Professor Emeritus of Neuropathology*

JAMES WOLFF. *Professor Emeritus of Pediatrics*

JOSEPH ZUBIN. *Professor Emeritus of Psychology*

Columbia Presbyterian Medical Center

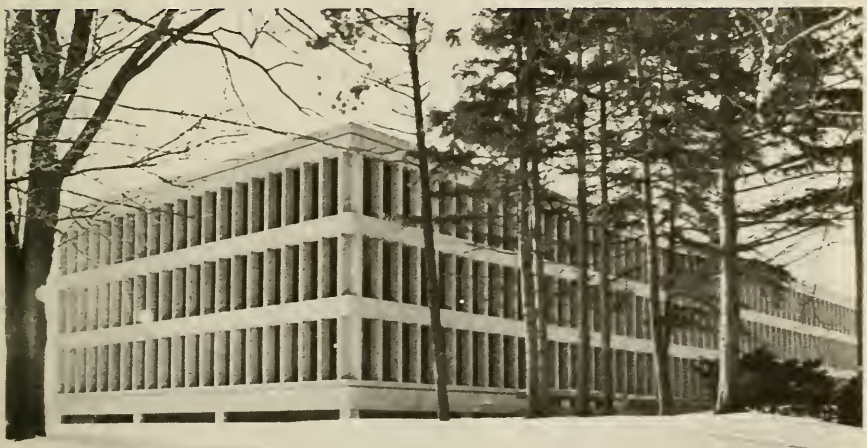
View of Bard Hall from Riverside Drive

Bard Haven Towers

Martin Luther King, Jr., Pavilion, Harlem Hospital Center

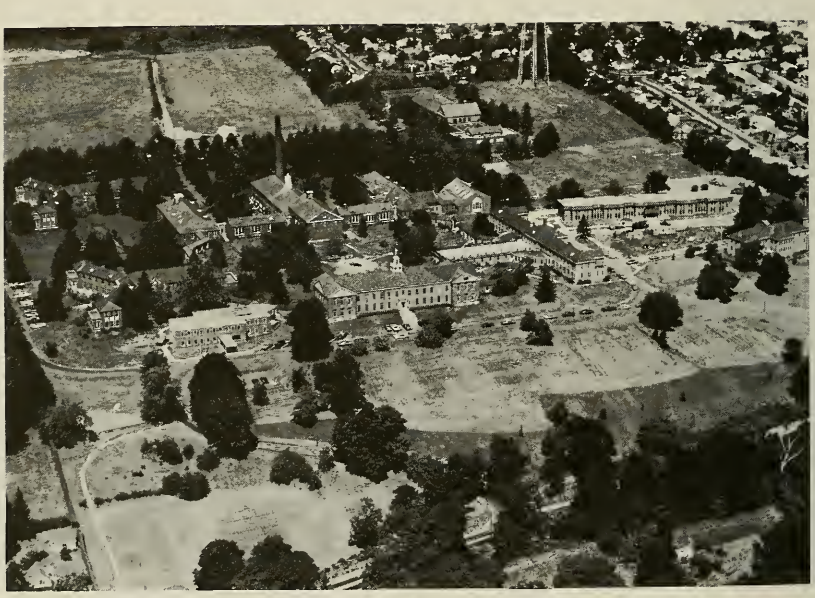
St. Luke's Hospital Center

Roosevelt Hospital



Mary Imogene Bassett Hospital

Overlook Hospital



Helen Hayes Hospital

Julius and Armand Hammer Health Sciences Center—
Augustus Long Library

The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which the physician's knowledge develops.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to the University's Equal Opportunity Office (305 Low Memorial Library, New York, N.Y. 10027, telephone 212-280-5511), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above-mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment (1) qualified Vietnam era veterans during the first four years after their discharge and (2) qualified disabled veterans throughout their working life if they have a 30 percent or more disability.

The University's Equal Opportunity Office has also been designated to coordinate the University's compliance activities under each of the programs referred to above.

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

History of the College and University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It

comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Augustus C. Long Health Sciences Library

The Columbia University Health Sciences Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 360,000 volumes and a staff of 40, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 3,000 periodicals are received regularly. An entire floor of the library has been designated as a media center and is equipped with a variety of audiovisual materials. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. Materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of approximately twenty other research institutions including Stanford and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Cancer Center/Institute of Cancer Research

The Cancer Research Center was established in 1973. In 1977 it was designated the Cancer Center/Institute of Cancer Research. In 1979 the Center was awarded Comprehensive status by the National Cancer Institute in recognition of its broad responsibility for research, patient care, and cancer control activities. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's, Roosevelt, Harlem—as well as Overlook in Summit, New Jersey, and Morristown Memorial Hospital in New Jersey. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the care of patients with cancer.

The Institute of Cancer Research of Columbia University, College of Physicians and Surgeons, was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the

Columbia-Presbyterian Medical Center in 1938. The Institute and Center are fully integrated.

The Center is composed of five operational divisions: Basic Science Research, Clinical Research and Patient Care, Education, Cancer Control, and Administration.

Center for Community Health Systems

The Center for Community Health Systems is an interdisciplinary and interdepartmental health services and health policy research and development center which enlists varied resources of the University, particularly those of the Faculty of Medicine and its affiliated hospitals, in a systematic attack on problems in the organization and delivery of health care, with a predominant, though not exclusive, focus on urban areas.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are under way, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the seventh floor of the Health Sciences Center.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 with a grant from the Ford Foundation. Its primary purpose is to do research in the fields of biology, clinical investigation, and the social sciences relevant to the solution of the world population problem. A parallel objective is to study the many complications of the reproductive process affecting human welfare, such as infertility, endocrine disorder, out-of-wedlock pregnancy, marital and other social problems. The Institute consists of the Center for Reproductive Sciences, including the divisions of reproductive biochemistry, physiology, and reproductive morphology, and the Center for Population and Family Health, which includes the divisions of social and administrative sciences, family life services, clinical evaluation, and sexual behavior.

The office of the Center for Reproductive Sciences is at 630 West 168th Street, and the office of the Center for Population and Family Health is at Floor B-3, 60 Haven Avenue.

Affiliated Hospitals

The Presbyterian Hospital

Founded in 1868, the Hospital joined with Columbia's College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the permanent alliance agreement with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,291 beds and 48 bassinets.

The hospital includes all of the individual units described below:

Presbyterian Hospital, the single largest hospital unit, has a total of 480 beds, which includes semiprivate for medical and surgical services, as well as for New York Orthopaedic Hospital, Squier Urological Clinic, and Sloane Hospital for Women.

The New York Orthopaedic Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was moved to the fifth floor of the Presbyterian Hospital.

Squier Urological Clinic has facilities on the tenth floor of the Presbyterian Hospital and on the tenth floor of Babies Hospital.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now occupies two floors of the Presbyterian Hospital and one floor in Harkness Pavilion.

Harkness Pavilion, erected when the Medical Center was established in 1928, is available for the accommodation of private and semiprivate patients from various services.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute includes facilities added in 1960 for psychiatric patients.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the outpatient department for the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 186 beds and a staff of specialists who are all salaried and full time. In 1979 there were 116,764 visits to the Outpatient

Department. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 23,000 volumes and about 350 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of nearly 1,100 beds serving Central Harlem and environs, responsible for the care of approximately 400,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is a 150-bed independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. New patient facilities are under construction; the research building has been renovated and an active biomedical engineering unit developed.

Morristown Memorial Hospital

Morristown Memorial Hospital is a regional hospital center offering comprehensive health services for the entire family. It is a voluntary, nonprofit institution with a history of community service dating back to 1892. The hospital has become a central health care facility serving Morris, Warren, Sussex, and Somerset counties, and a medical referral center for all of northwest New Jersey. Morristown Memorial is also a teaching hospital, with programs for medical, nursing, and technical staff. It became affiliated with the College of Physicians & Surgeons in 1979. Morristown Memorial, Overlook Hospital in Summit, and St. Barnabas Hospital in Livingston are members of the Shared Services Consortium pioneering regionalized health care services in northern New Jersey. With 689 beds, 1,700 employees, 678 nurses, a medical and dental staff of more than 400, and a full spectrum of basic and highly specialized services, Morristown Memorial combines the traditional advantages of a community hospital with the advanced capabilities of a progressive medical center. The hospital has two divisions: one where the emphasis is on acute care; the other, a center for preadmission testing, geriatric extended care, outpatient and alcoholic services, and planned facilities for subacute and rehabilitative care.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 540-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and primary care internal medicine and pediatrics through a program of broad-based clinical experience for graduate physicians. Outreach programs have been pioneered in alcoholism and other addictive illness, home-care-based hospice, and mobile intensive care utilizing paramedics.

St. Luke's–Roosevelt Hospital Center

St. Luke's Hospital Center, which has included Woman's Hospital since 1953, merged with The Roosevelt Hospital in 1979, forming a Hospital Center containing 1,363 beds and serving a catchment area spanning Manhattan's west side from 34th to 134th Streets. Both hospitals had maintained teaching affiliations with the College of Physicians and Surgeons of Columbia University for many years before 1971, when they each became full University hospitals. Under the terms of the affiliation with Columbia University, new members of the medical staff are appointed by the Hospital Center's Board of Trustees after they have received appointments as officers of instruction at the College of Physicians and Surgeons.

St. Luke's Hospital Center Division

St. Luke's was established in 1850 and has been on Morningside Heights next to the main Columbia campus since 1896. It merged with Woman's Hospital in 1953, and today the hospital complex contains 780 beds, including 45 pediatric beds, 59 obstetric beds, and 50 bassinets. Approximately 24,000 patients are admitted yearly to the four major and eleven specialty services. The attending staff numbers 600 doctors; the house staff consists of 219 residents and fellows.

St. Luke's is recognized as a leader in such fields as heart surgery, kidney transplantation, artificial kidney treatments, and noninvasive diagnosis (ultrasound). The Hospital Center's clinically oriented research projects are involved in such areas as blood diseases, coronary artery disease, gastroenterology, obesity and nutrition (it is the site of the only federally funded obesity research center), pulmonary disease, renal transplant-immunology, and bioengineering. A medical library of 22,000 volumes is an integral part of the Hospital Center. St. Luke's is both a major referral institution and a community hospital. The more than fifty specialty and subspecialty clinics see 50,000 patients yearly (totaling approximately 200,000 visits); the Emergency Room is one of the busiest in Manhattan, with 76,000 visits annually. The Hospital Center also operates extensive community programs in alcoholism treatment, drug detoxification, and mental health.

Roosevelt Hospital Division

The Roosevelt Hospital treated its first patient in 1871. It contains 583 beds and bassinets. There are about 217,000 outpatient and emergency-room visits annually. Approximately 19,000 patients are admitted to this hospital yearly. The hospital is engaged in many research and teaching activities. There are 159 members of the house staff. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its

Drug Addiction, Alcoholism, and many other outreach and community programs sponsored by the Departments of Pediatrics, Psychiatry, Medicine, and Ambulatory Care.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in September of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other courses in chemistry covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, appplicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. Students applying for admission must also have taken the Medical College Admission Test in the spring or fall of the year of application but only if the test scores will be sent to medical schools in the State of New York; if the scores will not be sent to this school, the requirement will be waived for all applicants. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $25. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and to develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Only a very small number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if a vacancy exists.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission to this school with advanced standing from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been able to admit relatively few individuals either to an entering class or with advanced standing whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. The Office of the Registrar, on the first floor of the Black Building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Any who do not now have a number should obtain one from their local Social Security office well in advance of registration.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is

registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period without the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Conduct

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (Black Building, Room 138) no later than September 12 in the autumn term and January 28 in the spring term. Applications require *(a)* the certification of the Registrar that the student is eligible to audit and *(b)* the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a

student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Beginning with the academic year 1979–1980, University charges such as tuition and fees, residence halls, and board plans may be paid at the student's convenience during the term. The full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a finance charge of 1 percent a month is assessed on amounts not paid by the due date shown on the monthly bill. In either event, however, the student is required to sign a Retail Installment Credit Agreement at the time of registration which sets forth the full terms and conditions of payment. All charges must be paid by the end of the term.

Tuition, the student health service fee, and the health insurance premium are payable as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (*see* the Academic Calendar) they will not be reduced, and a late fee of $25 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$6,500.00

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1–August 31)

Health service fee	$255.00
Hospital insurance premium	157.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Office of the Registrar, Black Building, Room 138, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees

For admission	$25.00
For late application, or late renewal of application, for a degree	25.00

Late Registration Fees

	Full-Time	*Part-Time*
During late registration	$ 25.00	$25.00
Up to four weeks after late registration	50.00	35.00
Four to eight weeks after late registration	75.00	45.00
Eight to twelve weeks after late registration	100.00	55.00
Beyond twelve weeks after late registration	125.00	65.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Registrar in writing: failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. Application fees, late fees, and special fees are not refundable.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$50.00
Part-time study	25.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

Adjustment Schedule

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$25 or $50	0
Week following second Saturday after first day of classes	25 or 50	10
Second following week	25 or 50	20
Third following week	25 or 50	30
Fourth following week	25 or 50	45
Fifth following week	25 or 50	60
Sixth following week	25 or 50	75
Seventh following week	25 or 50	90
Eighth following week	25 or 50	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the

Registrar, 630 West 168th Street. In the 1980–1981 academic year, the last day to file for an October degree is August 1; for a January degree, October 31; and for a May degree, February 16. A late fee of $25 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 4 for October degrees, December 5 for January degrees, March 30 for May degrees). Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application. A $25 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above).

Requests for Transcripts

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of the Registrar, 201 Philosophy Hall, Columbia University, New York, N.Y. 10027. *Official* copies will be sent directly by the University only to an official address such as another university, a business firm, or government agency. However students or alumni may request that unofficial copies of their transcripts (stamped "Student Copy") be sent directly to them.

There is a charge of $2 for each transcript requested except for intrauniversity copies sent between University offices. Transcript requests are processed in the order received and require five to seven working days for processing. Specific deadlines should be mentioned, and checks accompanying requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$6,500.00
Health and Hospitalization Insurance Fees	412.00
Books and supplies	650.00
Microscope rental cost and other equipment	450.00

In addition to the educational costs listed above, each first-year student should budget approximately $4,140 to cover housing ($1,375), food ($1,900), clothing, laundry and dry cleaning ($265), and miscellaneous expenses ($600).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case,

built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for students in the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with a swimming pool, basketball and squash courts, and facilities for other sports.

Room rates at Bard Hall depend on the length of the academic year and the room assignment. Information on the cafeteria service, room application forms, and other details are provided for entering students by the Admissions Office. For further information, write to the Bard Hall Manager, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Tower I on the Medical Center campus. Married or single students may rent apartments in Towers II and III; the rents are higher. Information may be obtained from the Manager, Bard Haven Towers, 100 Haven Avenue, New York, N.Y. 10032.

Financial Aid

All financial aid awards are based on verified need. Each year applicants for financial aid are required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

Upon acceptance to the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state. The Financial Aid Office provides interested students with the necessary information on applications for these programs. Applicants to medical school should consult college premedical offices for information on the competitive New York State Regents Awards.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians,

Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States or permanent residents (visa status). Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 250 West 57th Street, New York, N.Y. 10019 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. Annually, the Financial Aid Office of the College of Physicians and Surgeons advises students of the availability of this scholarship.

There are a number of scholarship funds administered by the Financial Aid Office of the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ALUMNI A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA AND ABRAHAM PENNER BERNHEIM SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

GEORGE BLUMENTHAL, Jr. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

Dr. HARRY BRITENSTOOL MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

Dr. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

ALONZO CLARK Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

HENRY D. CRUGER Bequest of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DAVID M. DEVENDORF Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

FRANCIS E. DOUGHTY Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

WILLIAM H. HEMINGWAY

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

CHARLES EUGENE HUBER, Sr. Bequest of Francis D. Huber, in memory of his father.

FRANCIS HUBER Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students studying under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber.

ELIZABETH HALL McCULLOGH Given by Mrs. William G. Heaphy in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons.

HERBERT D. MANLEY Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH F. SAPHIR MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus's services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, Jr., MEMORIAL Given by Dr. E. E. Stewart, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

HAROLD S. VAUGHAN Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the class of 1945, in memory of their classmate.

WHITING—Dr. FORDYCE B. St. JOHN SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Dr. JAMES LANCELOT WILSON Awarded to a student selected by the College of Physicians and Surgeons.

Gift Funds

CITIBANK MEDICAL SCHOLARSHIP Established by the Citibank. The recipient must have demonstrated need for support and he/she must be a New York State resident.

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees. Foreign students may borrow

from federal or state loan funds upon being granted permanent resident visa status in the United States.

Federal Health Professions Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus $2,500. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 7 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during period of deferment.

Health Professions Loans are *forgiven* or *canceled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state that has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be canceled.

National Direct Student Loans. Funds are allocated by the Office of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The total (undergraduate and graduate school loans) available to a student from the NDSL program is $12,000. The current interest rate, payable during the repayment period, is 4 percent on the unpaid principal. Repayment begins six months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service, during service in the Peace Corps or Volunteers in Service to America (VISTA), or during service in an internship required to begin professional practice.

Federal and State Guaranteed Loans. Under the auspices of the Office of Education of the Department of Health, Education, and Welfare, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is $5,000, and the total outstanding loan balance at any one time may not exceed $25,000. Lending institutions participating in this program can provide information regarding interest rates, repayment and deferment of repayment.

Other Sources of Loans. The National Education Loan Guarantee Program of the American Medical Association Education and Research Foundation (AMA-ERF) makes possible loans to all medical students, interns, and residents in good standing who are United States citizens, provided they are enrolled in full-time training at an AMA-approved American medical school or hospital and can demonstrate financial need. Medical students must have completed their first semester in order to qualify. The maximum amount that can be borrowed in a twelve-month period (September 1 to August 31) is $2,500. Up to a total of $12,500 may be borrowed over a period of seven years. The minimum loan for any one interim note is $400.

Interest rates have not been set at the time of this printing. Interest charges must be paid in full each year by the student. Payment of principal is deferred during the training period. Prepayment of principal may be made at any time without penalty.

University loan funds are also intended to supplement students' resources when monies are available. Included among these are the following funds:

PETER AMAZON Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, Jr. Used for the assistance of needy students in the medical school.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. Gift of George L. Hawkins, Jr., Class of 1941.

B. H. HOMAN, Jr. REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

ROBERT ABBE MACKENZIE Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S, wherever they are in training, or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

JESSIE SMITH NOYES

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in fifteen years; without interest for the first ten years; with 5 percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

JANEWAY PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Dr. HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

EDITH AND DENTON McKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

Dr. HAROLD LEE MEIERHOF MEMORIAL PRIZE Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

NEW YORK ORTHOPEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

Dr. ALFRED STEINER AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

Dr. HAROLD B. STEVELMAN AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

UROLOGY PRIZES Awarded to senior students for the best essays on urological subjects.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of the diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and those who chair the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Fine Arts, Athletics, Community Youth Work, Accessories, Social, and Columbia-Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Alumni Association

The P&S Alumni Relations Office serves to foster and maintain cordial relationships between the College of Physicians and Surgeons and its alumni, and is responsible for alumni relations programming and alumni annual fund raising projects.

Regular members of the Alumni Association include all those awarded the M.D. or Med.Sc.D. degrees from the College as well as those awarded the Certificate in Psychoanalytic Medicine. Associate members include the faculty of the College, all house staff members and visiting fellows at hospitals affiliated with P&S and all Ph.D. graduates of the Basic Sciences Curricula.

The work of the Alumni Association is accomplished through the efforts of its officers and the sixteen standing and *ad hoc* committees, all of whom form the constituency of the P&S Alumni Council. Members are encouraged to participate in the work and activities sponsored by the Association. Liaison with the College is facilitated through the office of the Assistant Dean for Alumni Affairs. Among the important functions of the Association is participation in the publication of *P&S,* a magazine cosponsored by the alumni and the medical school. This publication serves as a major form of communication between the school and its alumni, the faculty, the students and their parents, and other friends and associates of the College.

Restricted revenues raised by the Alumni Association provide funds for endowed scholarships at the College of Physicians and Surgeons and toward the endowment of a P&S Alumni Association professorship. Unrestricted revenues raised by the Association allow the College flexibility in applying funds to areas of greatest need. Routinely, a substantial stipend from unrestricted revenues goes to the P&S Club.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. As members of the Student-Alumni Relations Committee, students and alumni work together in addressing students' current needs and seeking solutions to their problems.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 2005-C, Black Building, 630 West 168th Street, New York, N.Y. 10032. Telephone: (212) 694-3498.

The Program of Instruction

The first-year curriculum is largely devoted to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. Each fourth-year student is required to take a one-month selective in ambulatory care which includes clerkship experience in Public Health/Community Medicine. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses (Abnormal Human Biology, Introduction to the Patient, and Psychiatric Medicine I and II), major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: the First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A

student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss, or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is determined to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass National Board examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of twelve weeks or less.

Summary of Curriculum (for students entering in September 1980)

First Year

SEPTEMBER 2, 1980 to JANUARY 9, 1981. First semester.

JANUARY 12, 1981 to JUNE 5, 1981. Second semester.

Second Year

SEPTEMBER 8, 1981 through MAY 31, 1982.

Third and Fourth Years

JULY 1, 1982 through APRIL 30, 1984.

Basic Science and Introductory Clinical Courses of the First and Second Years

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastroenterology, Dr. Glickman; Hematology, Dr. Rifkind; Immunology, Dr. Butler;

Infectious Diseases, Dr. Neu; Oncology, Dr. Weinstein; Nephrology, Dr. Al-Awqati; Surgery, Dr. Lo-Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy 101F. Microscopic anatomy
Dr. Nunez and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy 102F. Human anatomy
Drs. April, Moss, and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy 103F. Developmental anatomy
Dr. Pfenninger and departmental staff.
Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F-Microscopic anatomy.*

Biochemistry 101F. Introductory biochemistry
Dr. Gold and departmental staff.
Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics 101S. Introductory clinical genetics
Dr. Rifkind and associates.
Lectures emphasizing general principles of genetics and their clinical application.

Medicine 101S. Introduction to the practice of medicine
Drs. Canfield, Marcus, and associates.
Lectures, conferences, and seminars addressing ethical and personal issues relevant to the practice of medicine.

Medicine 102S. Introduction to the patient
Dr. Morris and associates.
A series of interdepartmental presentations and demonstrations followed by an intensive four-week preceptorship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student will learn to take a comprehensive medical history and to perform a complete physical examination.

Microbiology 101F. General microbiology
Drs. Erlanger, Ginsberg, and departmental staff.
Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Anatomy-Physiology 106S. Neural science
Drs. Kandel, Kelly, Kupfermann, Rowland, Schwartz, and Spencer.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Nutrition 101F. Introduction to nutrition
Dr. Winick and associates.
Lectures that define the elements of nutrition essential for good health.

Pathology 101F. General pathology
Drs. Branwood, Fenoglio, and departmental staff.
Lectures, conferences, and laboratory emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems.

Pathology 102S. Systemic pathology
Drs. Branwood, Fenoglio, and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies to elucidate the pathogenesis of findings in disease.

Pathology 103S. Neuropathology
Dr. Duffy and associates.
Lectures, demonstrations, and microscopic studies of diseases of the nervous system.

Pharmacology 101S. General and special pharmacology
Dr. Kahn and departmental staff.
Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Medicine 105F. Physician-patient relationship
Drs. Hembree, Rosenberg, and associates.
Preceptor sessions emphasizing the central role of the physician-patient relationship in the practice of medicine and the importance of the effects of health care organization and other factors on that relationship.

Physiology 101F. Human physiology
Dr. Nocenti and departmental staff.
Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry 101F. Psychiatric Medicine, I
Dr. Yudofsky and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Psychiatry 102S. Psychiatric Medicine, II
Dr. Yudofsky and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health 101F. Structure of health care systems
Dr. Rosenberg and associates.
Lectures and seminar groups on the current organization of health care.

Public Health 102F. Epidemiology
Dr. Rush and associates.
Lectures and seminars to present epidemiological principles.

Public Health 103F. Biostatistics
Dr. Fleiss and associates.
Lectures on the basic elements of biostatistics applicable to medicine.

Public Health 104F. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year

Anesthesiology 201. Clinical clerkship in anesthesiology
Dr. Bendixen and staff at the Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannikin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5)

describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannikin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe indications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis, and treatment of local anesthetic drug toxicity.

Dermatology 201.
Dr. Harber and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Loeb and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology 201. Clinical clerkship in neurology
Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology 202. Neurosurgery
Dr. Schlesinger and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Obstetrics and Gynecology 201. Clinical clerkship in obstetrics and gynecology
Dr. Vande Wiele and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Orthopedic Surgery 201. Clinical clerkship in orthopedic surgery
Dr. Garcia and staff at the Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology 201. Clinical clerkship in otolaryngology
Dr. Abramson and staff at the Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics 201. Clinical clerkship in pediatrics
Dr. Katz and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Psychiatry 201. Clinical clerkship in psychiatry
Dr. Sachar and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Downey and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff at the Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery 202. Lectures and demonstrations in surgical pathology
Drs. Fenoglio and Lane and staff at the Presbyterian Hospital.
Included in *Surgery 201.*

Urology 201. Clinical clerkship in urology
Dr. Olsson and staff.
During the clinical clerkship in urology students learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

Fourth Year

Interdepartment 301. Ambulatory care/public health selective
Dr. M. Stewart, course coordinator.
Each student in the fourth year is required to select an elective in ambulatory care, which includes clerkship experience in Public Health/Community Medicine. (For the rest of the Fourth Year see page 43 and the elective catalogue.)

Special Programs

M.D.-Ph.D. Program

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain the Ph.D. degree in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program. The program is supported by traineeships from the National Institutes of Health.

Applicants interested in the M.D.-Ph.D. program should write for further information and application forms to:

Dr. David Schachter
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Physiology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the health care delivery system and the technological, social, and political forces that contribute to the problems and patterns of illness, medical care, and delivery of services. They also develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student uses vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student registers concurrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degree may be awarded simultaneously at the end of the fourth year or separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y., 10032, or the Director's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Programs in Physical Therapy and Occupational Therapy

Educational programs are offered by the Department of Rehabilitation Medicine to students who have already earned a bachelor's degree. They may apply for admission to a two-year program leading to the Master of Science degree in physical therapy or occupational therapy, or a second professional Master of Science degree in occupational therapy education or occupational therapy administration. Details are given in the bulletin of Programs in Physical Therapy and Occupational Therapy.

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or its equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director, Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Clinical Genetics

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Program in Clinical Genetics, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics offers fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Program in Clinical Genetics, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

University Program of General Education

The Program of General Education offers a series of courses designed to bring together various scholarly and professional disciplines to explore matters of lasting human concern and distinct contemporary importance. The Program includes both experimental and time-tested forms of general education. As an outgrowth of Columbia's long experience in this area, the Program is based on the premise that general education can parallel disciplinary training in the graduate as well as undergraduate years. The Program offers intermediate and advanced courses that supplement such general introductions as Contemporary Civilization, Humanities A and B, Oriental Civilizations, and Oriental Humanities.

The Program's courses and seminars are addressed to both the nonspecialist and the specialist who is willing to venture beyond the conventional disciplinary boundaries. Within the normal limits of appropriate class size, and depending upon the level of the course, most courses are open to qualified students from all divisions of the University. Students should check with their department or school if there are questions about receiving credit toward a major or a degree.

A complete listing of courses offered under the Program will be published as a supplement to the University bulletins in the late summer of 1980. It will include courses not otherwise announced in the bulletins. For information, contact the General Education Program, 1513 International Affairs Building, Columbia University, New York, N.Y. 10027. Telephone: (212) 280-2208.

During the 1980–1981 academic year, the Health Sciences Division of the University will conduct a General Education Seminar on the interdisciplinary analysis and explica-

tion of value issues in health sciences education, research, and service as related to behavior modification, neonatology, reproductive medicine, and other topics. Seminars in each of these topics meet in the autumn and spring terms and are open to students from any division of the University with permission of a faculty participant. For information, call Dr. Arthur Caplan (694-6883) or the General Education Office (280-2208).

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be most meritorious.

Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with the resident's specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of two years of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of comprehensive and oral examinations and submission of a dissertation.

Departments of Instruction

Listed are only those faculty appointments and promotions approved by September 1, 1980.

The designation "also" is used with the name of an individual holding a joint appointment in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in." In either case, the name appears in both departmental lists.

Anatomy

Professor and Chairman

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

Professors

Charles A. Ely. *B.A., Washington and Jefferson, 1946; M.S., Hawaii, 1940; Ph.D., Wisconsin, 1949*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
Virginia M. Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Adjunct Professor

Manfred Otto Nahmmacher. *Ph.D., Giessen (Germany), 1960*

Associate Professors

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Stephen B. Doty (in Orthopedic Surgery). *B.A., Rice, 1961; M.A., 1963; Ph.D., 1965*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Karl H. Pfenninger. *M.D., Zurich, 1971*

Associate Professor of Clinical Pathology

Arline D. Deitch. *B.A., Brooklyn, 1944; M.A., Columbia, 1946; M.D., 1954*

Adjunct Associate Professor

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Kansas, 1956*

Assistant Professors

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*
Craig H. Bailey (also Psychiatry). *B.A., Lehigh, 1967; M.S., 1969; Ph.D., 1973*
Julia R. Currie. *B.A., Harvard, 1967; Ph.D., Washington (St. Louis), 1974*

Halina Den (in Neurology). *B.S., Frankfurt, 1949; M.S., New York University, 1954; Ph.D., Michigan, 1958*
Abraham B. Eastwood (in Neurology). *B.S., Muhlenberg, 1965; M.S., Lehigh, 1967; Ph.D., 1971*
James P. Kelly. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Daniel M. Linkie (in Obstetrics and Gynecology). *B.S., State University of New York (Downstate), 1962; M.S., State University of New York (Albany), 1963; Ph.D., Michigan, 1971*
Marie-France Maylie-Pfenninger. *Baccalaureate, Algiers, 1960; L. ès Sc., Marseilles, 1963; Docteur de Specialité, 1967; Ph.D., 1972*
Tuan Duc Pham (also Pharmacology). *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M. Phil., Ph.D., Columbia, 1975*
Taube Pearl Rothman. *B.A., City College, 1969; Ph.D., Cornell, 1975*
Samuel Mark Schacher (also Psychiatry). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*
Michael A. Silver. *B.A., Colgate, 1971; Ph.D., Rochester, 1977*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*
Klaudiusz Weiss (also Psychiatry) (in Dentistry). *M.A., Warsaw, 1967; Ph.D., State University of New York (Stony Brook), 1973*

Adjunct Assistant Professor

Ian Blair Fries. *B.A., Columbia, 1964; M.D., 1968*

SENIOR STAFF ASSOCIATE
Diane L. Sherman, B.S.

INSTRUCTOR
Sharon C. Colacino, Ph.D.

Anesthesiology

Professor and Chairman

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

Professors

Mieczyslaw Finster (also Obstetrics and Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (also Pharmacology). *M.B., National Central (Nanking), 1944*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Associate Professors

Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*

Allen I. Hyman (also Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Associate Professor of Clinical Anesthesiology

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

Assistant Professors

Jeffrey Askanazi. *B.S., Worcester Polytechnic Institute, 1971; M.D., Upstate Medical Center (Syracuse), 1975*
Keith J. Bernstein. *B.A., New York University, 1968; M.D., State University of New York (Downstate), 1974*
Richard Z.Y. Chen. *M.D., National Taiwan, 1966*
Foun-Chung Fan. *M.D., Taipei Medical College (Taiwan), 1972*
Arthur Donald Finck. *B.S., Lafayette, 1968; M.D., Columbia, 1972*
Peter R. Fletcher. *M.A., Oxford, 1974; M.B., Ch.B., Royal College of Physicians (London), 1974*
Warren K. Grodin. *B.A., Minnesota, 1967; M.D., London, 1975*
John A. Holzer. *B.A., California (Berkeley), 1968; M.D., 1972*
Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Leila M. Pang (also Pediatrics). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1964*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*
David M. Richlin. *B.A., Drew, 1970; M.D., New Jersey College of Medicine and Dentistry, 1974*
Stanley H. Rosenbaum (also Medicine). *B.A., Columbia, 1967; M.A., Harvard, 1969; M.D., Cornell, 1973*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Yvonne Vulliemoz. *M.S., Lausanne, 1956; Ph.D., Paris, 1969*
Sook Young Woo. *B.S., Ewha Women's University (Seoul), 1968; M.D., 1972*
Jen-Tieng Wung. *M.D., Taipei Medical College, 1956*

Assistant Professors of Clinical Anesthesiology

Ana Maria Lobo Antunes. *M.D., Lisbon Faculty of Medicine, 1967*
Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Kathryn A. W. Cozine. *M.D., Johns Hopkins, 1961*
Ellise S. Delphin. *B.A., Barnard, 1971; M.D., Columbia, 1975*
Alber Faltas. *M.D., Kasr-El-Ainy Medical School (Egypt), 1961*
Richard F. Gallagher. *B.S., St. John's (New York), 1968; M.D., New York University, 1973*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
Ina Lieberman. *B.A., Barnard, 1964; M.D., New York University, 1968*
Dudley D. McDaniel. *B.A., Miami (Ohio), 1971; M.D., Autonoma (Mexico), 1975*
Kevin V. Sanborn. *B.S., Manhattan, 1969; M.D., New York University, 1973*
Medhat Riad Wassef. *M.B., B.Ch., Cairo, 1957*
Gerald S. Weinberger. *M.D., New York University, 1948*
Marcelle M. Willock. *B.A., New Rochelle, 1958; M.D., Howard, 1962*
Joseph Chuan-Shih Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

INSTRUCTOR IN CLINICAL ANESTHESIOLOGY
Lee M. Rosenbaum, M.D.

RESEARCH ASSOCIATES
Salha S. Daniel, Ph.D.
Mariagnes Verosky, B.A.
Alvin Wald, Ph.D.

STAFF ASSOCIATES
James C. Dooley, M.A.
Annamarie Giangarra, M.S.
Carol Pantuck, B.A.
Jeffrey M. Wagner, M.A.

At Harlem Hospital

Associate Professor of Clinical Anesthesiology

Herbert G. Care. *B.A., College of the City of New York, 1942; M.D., Howard, 1947*

Assistant Professors of Clinical Anesthesiology

Elmer S. Foster. *B.S., College of the City of New York, 1952; M.D., Brussels, 1959*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycée T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Madisetti Swamy. *M.B., B.S., Osmania (India), 1954*
J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1960*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

Assistant Clinical Professors

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

At Overlook Hospital

Assistant Clinical Professors

John Rocco Calabro. *B.S., Manhattan, 1971; M.D., New Jersey College of Medicine and Dentistry, 1975*
Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*
Mary Louise White. *B.S., Maryland, 1943; M.D., 1945*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Sami A.M. Abadir, M.D.
Jane deV. Stark, M.D.
Carol E. Zimmerman, M.D.

At St. Luke's–Roosevelt Hospital Center

Assistant Professor of Clinical Anesthesiology

Ennio Gallozzi. *M.D., Rome, 1953*
Joseph Iacovelli. *B.A., Buffalo, 1952; M.D., Bologna, 1958*
Ronald A. Andree. *B.A., Miami (Ohio), 1955; M.D., Case Western Reserve, 1959*

Assistant Clinical Professors

Errol N. Harding. *B.A., M.D., C.M., McGill, 1949*
Aino Tuul. *M.D., Tartu (Estonia), 1942*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY
Guglielmina Bettini, M.D.
Hilda H.C. Liu, M.D.
Alfred T.C. Peng, M.D.
Altagracia H. Polanco, M.D.

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Julio M. Garcia-Rodriguez, M.D.

INSTRUCTORS *(continued)*
Byung Yang Kim, M.D.
Zdan J. Korduba, M.D.
Han Chiang Lee, M.D.
Ignacio U. Ngo, M.D.
Kyaw Nyunt, M.B., B.S.
Kenneth A. Rothenberg, M.D.
Kristappa Sangavaram, M.D.

Biochemistry

Robert Wood Johnson, Jr., Professor and Chairman

Isidore S. Edelman. *B.A., Indiana, 1941; M.D., 1944*

University Professor

Sol Spiegelman (Director of the Institute of Cancer Research). *B.S., College of the City of New York, 1939; M.S., Columbia, 1942; Ph.D., Washington (St. Louis), 1944*

Professors

Richard Axel (also Pathology). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*
Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941; Ph.D., Duke, 1950*
Philip Feigelson. *B.S., Queens, 1947; Ph.D., Wisconsin, 1951*
Arthur Karlin (also Neurology). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D. Columbia, 1955*
Seymour Lieberman (in Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*
Barbara W. Low. *B.A., Oxford, 1942; M.A., 1946; D. Phil., 1948*
Maurice M. Rapport (in Psychiatry). *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*
Parithychery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

Adjunct Professor

Benno P. Schoenborn. *B.A., California (Los Angeles), 1958; Ph.D., New South Wales (Australia), 1962*

Associate Professors

Roger M. Burnett. *B.Sc., The Polytechnic (London), 1964; Ph.D., Purdue, 1970*
Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*
Dezider Grunberger (also Public Health). *M.Sc., Technical (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*

Adjunct Associate Professor

John D. Karkas. *Ph.D., Columbia, 1962*

Senior Research Associate

David Elwyn (in Surgery). *B.A., Columbia, 1941; Ph.D., 1950*

Assistant Professors

George Alexander (in Psychiatry). *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Frederick W. Alt. *B.S., Brandeis, 1971; Ph.D., Stanford, 1978*
Hagen P. Bayley. *B.Sc., Oxford, 1974; Ph.D., Harvard, 1979*
Stephen Goff. *B.A., Amherst, 1973; Ph.D., Stanford, 1978*
Irving Goodman (in Surgery). *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*
Lee Makowski. *B.S., Brown, 1971; M.S., Massachusetts Institute of Technology, 1973; Ph.D., 1976*
Herbert L. Meltzer (in Psychiatry). *B.S., Long Island, 1942; Ph.D., Columbia, 1950*
James L. Roberts (in International Institute for Study of Human Reproduction). *B.S., Colorado State, 1973; Ph.D., Oregon, 1977*
Kamil Ugurbil. *Ph.D., Columbia, 1977*
Bonnie Ann Wallace. *Ph.D., Yale, 1977*

ASSOCIATE
Carola P. Zimmerman, Ph.D.

RESEARCH ASSOCIATES
Martha Redden Kimball, Ph.D.
Jade Li, Ph.D.
Sahebarao Mahadik, Ph.D. (in Psychiatry)
Laura Ponticorvo, Ph.D. (in Obstetrics and Gynecology)
Alicia M. Spencer, Ph.D.

INSTRUCTOR IN BIOCHEMISTRY
Karen A. Bucher, Ph.D.

STAFF ASSOCIATES
Duane L. Guernsey
Susanna Yung Kwong, M.S.
Venkitachalem P. Mohan, Ph.D.
James Pachence, Ph.D.

SPECIAL LECTURERS
Erwin Chargaff, M.D.
Zacharias Dische, M.D. (in Ophthalmology)
Karl Meyer, M.D. (in Ophthalmology)
David Nachmansohn, M.D. (in Neurology)
David B. Sprinson, M.D.

At Mary Imogene Bassett Hospital

Adjunct Associate Professor

Theodore Peters, Jr. (in Medicine). *B.S., Lehigh, 1943; Ph.D., Harvard, 1950*

Adjunct Assistant Professor

Leonard A. Sauer. *M.D., Rochester, 1961; Ph.D., Rockefeller, 1966*

At St. Luke's–Roosevelt Hospital Center

RESEARCH ASSOCIATES
Venkitachalem P. Mohan, Ph.D.
Utapalendu S. Maitra, Ph.D.

Dermatology

Professor and Chairman

Leonard C. Harber. *B.A., Johns Hopkins, 1949; M.D., New York University, 1953*

At Presbyterian Hospital

Clinical Professors

Saul L. Sanders. *B.A., Kenyon, 1950; M.D., Cornell, 1952*
Dorothy Windhorst. *B.A., Chicago, 1948; M.D., 1954*

Associate Professors

Richard L. Edelson. *B.A., Hamilton, 1966; M.D., Yale, 1970*
Margarita S. Hutner. *B.A., Puerto Rico, 1936; M.A., Harvard, 1945; Ph.D., 1952*

Associate Professor of Clinical Dermatology

Maureen B. Poh. *B.S., Siena, 1964; M.D., Tennessee, 1967*

Associate Clinical Professors

Jack Eisert. *B.A., Cornell, 1952; M.D., State University of New York, 1956*
David N. Silvers (also Pathology). *B.A., Haverford, 1964; M.D., Duke, 1968*
Richard A. Walzer. *B.A., Harvard, 1952; M.D., Columbia, 1956*

Assistant Professors

Alan D. Andrews. *B.S., Illinois, 1968; M.D., Virginia, 1972*
Robert B. Armstrong. *B.A., Haverford, 1969; M.D., Columbia, 1973*
William De Pietro. *B.S., Massachusetts Institute of Technology, 1972; M.D., Georgetown, 1976*
Irene E. Kochevar. *Ph.D., Michigan State, 1970*
Robert R. Walther. *B.A., Cornell, 1969; M.D., North Carolina, 1973*

Assistant Clinical Professors

Irving Abrahams. *B.A., New York University, 1948; M.D., State University of New York, 1954*
Vincent S. Beltrani. *B.A., Brooklyn, 1953; M.D., Columbia, 1957*
Marc E. Grossman. *B.A., State University of New York (Buffalo), 1970; M.D., Pennsylvania, 1974*
Eric W. Herman. *B.A., State University of New York (Buffalo), 1972; M.D., Mt. Sinai, 1976*
Einar A. Juhlin. *B.S., Illinois, 1950; M.D., Royal Charles (Sweden), 1957*
Theodore A. Labow. *B.S., Miami, 1951; M.D., Tufts, 1955*
Jack H. Rozen. *B.S., Pittsburgh, 1958; M.D., 1962*
Gregory Zalar. *B.S., George Washington, 1965; M.D., Georgetown, 1969*

ASSOCIATES IN CLINICAL DERMATOLOGY
William G. Atwood, M.D.
Steven R. Kohn, M.D.
Paul Ira Schneiderman, M.D.
Eugene W. Sweeney, M.D.

RESEARCH ASSOCIATES
Carole L. Berger, Ed.D.
Shinichiro Takezaki, M.D.

INSTRUCTORS IN CLINICAL DERMATOLOGY
Leon K. Demar, M.D.
Robert P. Feinstein, M.D.

INSTRUCTORS (*continued*)
Jeffery S. Kezis, M.D.
Joseph A. Penner, M.D.
Douglas Pravda, M.D.
Joseph S. Shapiro, M.D.
Luis A. Suarez, M.D.
Harvey I. Weinberg, M.D.
Lawrence M. Wells

ASSISTANTS IN CLINICAL DERMATOLOGY
Timothy J. Corey, M.D.
William J. Cunningham, M.D.
Joan P. Noroff, M.D.
Margaret S. Ravits, M.D.

SENIOR STAFF ASSOCIATE
Anthony C. Chu, M.B., B.S.

STAFF ASSOCIATE
Francis P. Gasparro, Ph.D.

SPECIAL LECTURER
J. Lowry Miller, M.D.

LECTURERS
Arturo L. Carrion, M.D.
Angelo A. Lamola, Ph.D.

At St. Luke's–Roosevelt Hospital Center

Clinical Professor

Alexander W. Young, Jr. *B.S., Maryland, 1944; M.D., 1946*

Assistant Clinical Professor

Peter C. Lombardo. *B.S., Rochester, 1955; M.D., Albany, 1959*

ASSOCIATES IN CLINICAL DERMATOLOGY
Herbert H. Hochman
David Sibulkin, M.D.

ASSISTANTS IN CLINICAL DERMATOLOGY
Joshua S. Berger, M.D.
Stanley J. Lewis, M.D.

INSTRUCTOR IN CLINICAL DERMATOLOGY
Elaine V. DiGrande, M.D.

Human Genetics and Development

Professor and Acting Chairman

Arthur Bank (also Medicine). *B.A., Columbia, 1956; M.D., 1960*

University Professor

Sol Spiegelman (Director, Institute of Cancer Research). *B.S., College of the City of New York, 1939; M.S., Columbia, 1942; Ph.D., Washington (St. Louis), 1944*

Professors

Kimball C. Atwood. *B.A., Columbia, 1942; M.D., New York University, 1946*
Arthur D. Bloom (also Pediatrics). *B.A., Harvard, 1956; M.D., New York University, 1960*
Georgiana Jagiello (Virgil Damon Professor) (see Obstetrics and Gynecology). *B.A., Boston, 1949; M.D., Tufts, 1955*
Elvin A. Kabat (also Microbiology) (in Neurology). *B.S., College of the City of New York, 1932; M.A., Columbia, 1934; Ph.D., 1937*
Paul A. Marks (also Medicine). *B.A., Columbia, 1946; M.D., 1949*
Orlando J. Miller (also Obstetrics and Gynecology). *B.S., Yale, 1945; M.D., 1950*
Richard A. Rifkind (also Medicine). *B.S., Yale, 1952; M.D., Columbia, 1955*

Professor of Mathematical Statistics and Genetics

Howard Levene (in Biological Sciences and Mathematical Statistics). *B.A., New York University, 1941; Ph.D., Columbia, 1947*

Professors of Clinical Psychiatry

L. Erlenmyer-Kimling. *B.S., Columbia, 1957; Ph.D., 1960*
John D. Rainer. *B.A., Columbia, 1941; M.A., 1944; M.D., 1951*

Adjunct Professors

Sidney Udenfriend. *B.S., College of the City of New York, 1939; Ph.D., New York University, 1948*
Arthur Weissbach. *B.S., College of the City of New York, 1947; Ph.D., Columbia, 1953*
Herbert Weissbach. *B.S., College of the City of New York, 1953; Ph.D., George Washington, 1957*

Associate Professor of Clinical Pediatrics

Dorothy Warburton. *B.S., McGill, 1957; Ph.D., 1961*

Adjunct Associate Professors

Ronald H. Kaback. *B.A., Haverford, 1958; M.D., Albert Einstein College of Medicine, 1962*
Michael Ian Sherman. *B.S.C., McGill, 1965; Ph.D., State University of New York (Stony Brook), 1969*
David Webb. *B.A., California State, 1966; M.A., 1968; Ph.D., Rutgers, 1971*

Senior Research Associates

Harold I. Calvin (in International Institute for the Study of Human Reproduction). *B.A., Columbia, 1957; Ph.D., 1964*
Fred R. Kramer. *B.S., Michigan, 1964; Ph.D., Rockefeller, 1969*
Dorothy A. Miller. *B.A., Wilson, 1952; Ph.D., Yale, 1957*
Donald R. Mills. *B.A., Indiana, 1962; M.A., 1964; Ph.D., Illinois, 1968*

Assistant Professors

Ann S. Henderson. *B.S., Winthrop, 1960; Ph.D., North Carolina, 1966*
Debra Wolgemuth. *B.A., Gettysburg, 1969; M.A., Vanderbilt, 1971; M. Phil., Columbia, 1975; Ph.D., 1977*

RESEARCH ASSOCIATES
Jye-Siung Fang, Ph.D.
Harlow K. Fischman, Ph..D.

STAFF ASSOCIATES
Amy S. Baim, Ph.D.
Ye-Chin Choi, Ph.D.

LECTURER
Jerard Hurwitz, Ph.D.

Medicine

Professor of Clinical Medicine and Acting Chairman

Thomas Q. Morris. *B.A., Notre Dame, 1954; M.D., Columbia, 1958*

At Presbyterian Hospital

Professors

Arthur Bank (also Human Genetics and Development). *B.A., Columbia, 1956; M.D., Harvard, 1960*
J. Thomas Bigger, Jr. (also Pharmacology). *B.A., Emory, 1955; M.D., Georgia, 1960*
Vincent P. Butler, Jr. *B.A., St. Peter's, 1949; M.D., Columbia, 1954*
Robert E. Canfield. *B.S., Lehigh, 1952; M.D., Rochester, 1957*
Paul J. Cannon. *B.A., Holy Cross, 1954; M.D., Harvard, 1958*
Rose R. Ellison (in the Cancer Center). *B.A., Barnard, 1943; M.D., Columbia, 1948*
Andrew G. Frantz. *B.A., Harvard, 1951; M.D., Columbia, 1955*
DeWitt S. Goodman (Tilden-Weger-Bieler Professor). *B.A., Harvard, 1951; M.D., 1955*
Rejane M. Harvey. *B.A., Vassar, 1939; M.D., Columbia, 1943*
John N. Loeb. *B.A., Harvard, 1957; M.D., 1961*
Paul A. Marks (also Human Genetics and Development). *B.A., Columbia, 1946; M.D., 1949*
Harold C. Neu (also Pharmacology). *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*

Hymie L. Nossel. *M.B., Ch.D., Cape Town, 1953; Ph.D., Oxon, 1962*
Elliott F. Osserman (American Cancer Society Professor). *B.A., Columbia, 1945; M.D., 1947*
Benvenuto Pernis (also Microbiology). *M.D., Milan, 1947*
Richard A. Rifkind (also Human Genetics and Development). *B.S., Yale, 1952; M.D., Columbia, 1955*
John V. Taggart (also Physiology). *M.D., Southern California, 1940*
Donald F. Tapley. *B.S., Acadia, 1948; M.D., Chicago, 1952*
Gerard M. Turino. *B.A., Princeton, 1945; M.D., Columbia, 1948*
I. Bernard Weinstein (also Public Health). *B.S., Wisconsin, 1951; M.D., 1955*
Arthur R. Wertheim. *B.A., Dartmouth, 1935; M.D., Jefferson, 1939*

Professors of Clinical Medicine

Felix E. Demartini. *B.A., Columbia, 1943; M.D., 1946*
M. Irene Ferrer. *B.A., Bryn Mawr, 1937; M.D., Columbia, 1941*
Donald A. Holub. *B.A., Columbia, 1949; M.D., 1952*
Edgar Leifer. *B.S., College of the City of New York, 1937; M.A., Columbia, 1939; Ph.D., 1941; M.D., 1946*
Robert Palmer. *B.A., Oberlin, 1953; M.D., Harvard, 1957*

Professor of Social Medicine

Robert J. Weiss (also Psychiatry). *B.A., George Washington, 1947; M.D., Columbia, 1951*

Clinical Professors

Stuart W. Cosgriff. *B.A., Holy Cross, 1938; M.D., Columbia, 1942*
John R. Edsall. *B.A., Cambridge, 1945; M.B., B.Ch., 1948*
Kermit L. Pines. *B.A., Columbia, 1937; M.D., 1942*
John A. Wood. *B.A., Harvard, 1943; M.D., 1946*

Associate Professors

Qais Al-Awqati (also Physiology). *M.B., Ch.B., Baghdad, 1952*
Leslie Baer. *B.A., Wisconsin, 1959; M.D., Columbia, 1963*
John P. Bilezikeian. *B.A., Harvard, 1965; M.D., Columbia, 1969*
Peter R. B. Caldwell. *B.A., Dartmouth, 1954; M.D., Harvard, 1958*
Leonard Chess. *B.S., Massachusetts Institute of Technology, 1964; M.D., State University of New York (Downstate), 1968*
Robert M. Glickman. *A.B., Amherst, 1960; M.D., Harvard, 1964*
Michael M. Stewart. *A.B., Princeton, 1957; M.D., Harvard, 1965*

Associate Professors of Clinical Medicine

Yale Enson. *B.A., Columbia, 1948; M.D., State University of New York (Downstate), 1953*
Robert H. Heisenbuttel. *B.A., Thiel, 1959; M.D., Columbia, 1963*
Wylie C. Hembree, III (also Obstetrics and Gynecology). *B.A., Vanderbilt, 1960; M.D., Washington (St. Louis), 1964*
George W. Melcher, Jr. *B.A., Colorado, 1943; M.D., Columbia, 1946*
Jane H. Morse. *B.A., Smith, 1951; M.D., Columbia, 1955*
James A. Reiffel. *B.A., Duke, 1965; M.D., Columbia, 1969*
Frank R. Smith. *B.A., Dartmouth, 1959; M.D., Columbia, 1962*
Joseph G. Sweeting. *B.S., Holy Cross, 1951; M.D., Columbia, 1956*

Henry M. Thomas, III. *B.A., Haverford, 1950; M.D., 1957*
Melvin B. Weiss. *B.S., Massachusetts Institute of Technology, 1962; M.D., State University of New York (Downstate), 1967*
Robert T. Whitlock. *B.A., North Carolina, 1950; M.D., 1957*

Associate Clinical Professors

Ralph S. Blume. *B.A., Amherst, 1960; M.D., Columbia, 1964*
John O. Burris. *B.S., Wyoming, 1952; M.D., Rochester, 1956*
Peter A. Gross. *B.A., Amherst, 1960; M.D., Yale, 1964*
Lionel Grossbard. *B.A., Columbia, 1957; M.D., 1961*
George A. Hyman. *B.A., Columbia, 1942; M.D., 1945*
Abbie I. Knowlton. *B.A., Bryn Mawr, 1938; M.D., Columbia, 1942*
William Lovejoy. *B.A., Yale, 1956; M.D., Columbia, 1962*
David J. McConnell. *B.A., Cornell, 1958; M.D., Yale, 1962*
George H. McCormack, Jr. *B.S., Holy Cross, 1945; M.D., Columbia, 1949*
Jay I. Meltzer. *B.A., Princeton, 1949; M.D., Columbia, 1953*
Hans Neuberg. *B.A., Wagner, 1941; M.D., Columbia, 1950*
Richard J. Stock. *B.S., Yale, 1944; M.D., Columbia, 1947*
Earl A. Wheaton, Jr. *B.A., Princeton, 1950; M.D., Columbia, 1954*

Assistant Professors

Gerald B. Appel. *B.A., Cornell, 1968; M.D., Albert Einstein, 1972*
Conrad B. Blum. *B.S., Northwestern, 1969; M.D., 1971*
Thomas A. Brasitus. *B.A., Connecticut, 1967; M.D., Jefferson, 1971*
Randolph Cole. *M.D., State University of New York (Downstate), 1973*
Oliver T. Fein. *B.A., Swarthmore, 1962; M.D., Case Western Reserve, 1967*
Steven M. Friedman. *B.A., Princeton, 1968; M.D., Cornell, 1972*
Glenda J. Garvey. *B.A., Wellesley, 1964; M.D., Columbia, 1969*
Elsa-Grace V. Giardina. *B.A., Bryn Mawr, 1961; M.D., New York Medical College, 1965*
Howard J. Goldsweig. *M.D., State University of New York (Downstate), 1970*
Steven Grant. *M.D., Mt. Sinai Medical School, 1973*
Peter Green. *M.B., B.S., Sydney, 1970*
James P. Halper. *A.B., Columbia, 1965; M.D., 1971*
Karen L. Kaplan. *B.A., Miami (Ohio), 1963; M.D., Ph.D., Chicago, 1969*
Hugh Nellans (also Physiology). *B.A., Lawrence, 1967; Ph.D., Yale, 1971*
Allen Bryant Nichols. *B.A., Yale, 1961; M.D., Virginia, 1971*
Juan Oliver. *B.A., Bachiller Institute, 1961; M.D., Barcelona (Spain), 1967*
Martin W. Oster. *B.A., Columbia, 1967; M.D., 1971*
John Owen. *B.ScM., McMaster (Ontario) 1972; M.D., 1974*
Constance Park. *B.A., Radcliffe, 1974; M.S., Harvard, 1967; M.D., Albert Einstein, 1974*
Marjorie Perloff. *B.A., Bennington, 1965; M.D., Case Western Reserve, 1969*
Eric R. Powers. *B.A., Cornell, 1969; M.D., Harvard, 1974*
Frederick G. Rapoport. *B.A., Columbia, 1970; M.D., 1974*
Stanley H. Rosenbaum. *B.A., Columbia, 1967; M.A., Harvard, 1969; M.D., Cornell, 1973*
William H. Sherman (also Anesthesiology). *B.S., Pennsylvania State, 1967; M.D., Jefferson, 1969*
Ethel S. Siris. *A.B., Radcliffe, 1967; M.D., Columbia, 1971*
Mark B. Stoopler. *M.D., Cornell, 1975*
Alan R. Tall. *M.B., B.S., Sydney (Australia), 1970*
Francis M. Weld. *B.A., Harvard, 1961; M.D., Columbia, 1965*

Assistant Professors of Clinical Medicine

Lester W. Blair. *M.D., Columbia, 1974*
David K. Blood. *B.A., Amherst, 1962; M.D., Columbia, 1966*
Norma M.T.W. Braun. *B.A., Pennsylvania, 1959; M.D., Columbia, 1963*
Peter Buchin. *B.S., Williams, 1970; M.D., Yale, 1974*
Robert H. DeBellis. *B.S., Queens, 1951; M.D., Columbia, 1958*
Ronald E. Drusin. *B.S., Union (Schenectady), 1962; M.D., Columbia, 1966*
Dorothy Estes. *B.C., Wheaton (Massachusetts), 1946; M.D., Columbia, 1950*
Kenneth C. Fine. *M.D., Catholic (Louvain, Belgium), 1970*
Mark J. Goldberger. *B.A., Johns Hopkins, 1969; M.D., Columbia, 1973*
Thomas P. Jacobs. *B.A., Amherst, 1964; M.D., Johns Hopkins, 1968*
Lynne L. Johnson. *B.A., Wellesley, 1965; M.D., Columbia, 1969*
Rafael A. Lantigua. *M.D., Autonomous (Santo Domingo), 1972*
Oscar Lebwohl. *B.A., Dartmouth, 1968; M.D., Harvard, 1972*
Robert McConnell. *B.A., Hamilton, 1969; M.D., Columbia, 1973*
Robin O. Motz. *B.A., Columbia, 1959; Ph.D., 1965; M.D., 1975*
Carmen Ortiz-Neu. *B.A., Wellesley, 1959; M.D., Columbia, 1963*
Kenneth M. Prager. *B.A., Columbia, 1964; M.D., Harvard, 1968*
Marshall Primack. *B.A., Louisville, 1961; M.D., Johns Hopkins, 1965*
Edith B. Reilly. *B.A., Smith, 1952; M.D., Columbia, 1956*
John L. Roglieri. *B.A., B.S., Lehigh, 1960; M.D., Harvard, 1966*
Martin J. Saltzman. *B.A., Columbia, 1967; M.D., State University of New York (Downstate), 1972*
Harvey A. Schneier. *B.A., Columbia, 1963; M.D., 1967*
Peter E. Schrag. *B.A., Harvard, 1960; M.D., 1964*
Allan Schwartz. *B.S., City College, 1967; M.S., Harvard, 1968; M.D., Columbia, 1974*
Alan H. Seplowitz. *B.A., Columbia, 1968; M.D., 1972*
Joseph Tenenbaum. *B.A., Brandeis, 1968; M.D., Harvard, 1974*
Byron Thomashow. *B.A., Columbia, 1970; M.D., 1974*
Jack B. Weissman. *B.A., New York University, 1966; M.D., Harvard, 1970*
Gail S. Williams. *B.A., Wellesley, 1964; M.D., Columbia, 1968*

Assistant Professor of Clinical Social Work

Elizabeth R. Prichard. *B.A., Adelphi, 1943; M.S., New York School of Social Work, 1947*

Assistant Clinical Professors

Alfred Becker. *M.D., Albert Einstein, 1962*
Michael H. Cohen. *B.A., Johns Hopkins, 1961; M.D., 1965*
Clarence J. D'Alton. *B.A., Yale, 1939; M.D., Columbia, 1943*
Richard B. Duane, Jr. *B.A., Princeton, 1940; M.D., Columbia, 1943*
Juan G. Edreira. *M.D., Havana, 1951*
Daniel L. Larson. *M.D., Columbia, 1946*
Arnold Lisio. *B.S., Rochester, 1956; M.D., 1961*
Daniel L. Macken. *B.A., Holy Cross, 1955; M.D., Boston, 1960*
Michael F. Parry. *B.A., Yale, 1966; M.D., Columbia, 1970*
John Postley. *B.A., Yale, 1964; M.D., Columbia, 1968*
Nicholas Rango. *B.S., St. Louis, 1966; M.D., Northwestern, 1970*
Arthur I. Snyder. *B.A., Columbia, 1946; M.D., 1950*
Jeffrey A. Stein. *B.A., Harvard, 1960; M.D., 1965*
Cornelius J. Tyson. *B.A., Princeton, 1939; M.D., Columbia, 1943*

Assistant Clinical Professor of Social Medicine

Eric R. Marcus (also Psychiatry). *B.A., Columbia, 1965; M.D., Wisconsin, 1969*

ASSOCIATES IN CLINICAL MEDICINE
Marcia B. Bull, M.D.
John M. Daley, M.D.
Elias M. Kaimakliotis, M.D.
Edward B. Leahey, Jr., M.D.
Robert Lewy, M.D.
Alan L. Saroff, M.D.

ASSOCIATE IN SOCIAL MEDICINE
Arthur L. Caplan, Ph.D.

RESEARCH ASSOCIATES
Steven Birken, Ph.D.
Joseph Cerreta, Ph.D.
Rose D'Alisa, Ph.D.
Paul Ehrlich, Ph.D.
Lloyd Fleisher, Ph.D.
James Koehn, Ph.D.
Bonnie Bray, M.D.
Chung Y. Liu, Ph.D.
Mohammed M. Osman, D.V.M.
Ildiko Radichevich, Ph.D.
Michael Schonberg
Robert R. Sciacca, M.S.
John E. Smith, Ph.D.
George Taliadovros, M.D.
Larry D. Witte, Ph.D.

INSTRUCTORS IN CLINICAL MEDICINE
Howard J. Barnum, M.D.
Eli Bauman, M.D.
Louis D. Carmichael, M.D.
Herbert Chase, Jr., M.D.

INSTRUCTORS (*continued*)
Paul Huai Chen, M.D.
Jorge Cortes-Quinones, M.D.
Ann P. D'Adamo, M.D.
Arthur R. DeSimone, M.D.
Michael Goldman, M.D.
Victoria E. Guy, M.D.
Lonnie B. Hanauer, M.D.
Ralph Herz, Jr., M.D.
Oscar Irigoyen, M.D.
Yvonne E. Johnson, M.D.
Constantine P. Ladapoulos, M.D.
Pamela Ann Lawrence, M.D.
Raymond Lippert, M.D.
Robert M. Magrisso, M.D.
Pier Mancusi-Ungaro, M.D.
Aaron Manson, M.D.
Marcia Naveh, M.D.
Eduardo R. Pons, Jr., M.D.
Jane S. Sillman, M.D.
Richard V. Sims, III, M.D.
David B. Sutter, M.D.

ASSISTANTS IN CLINICAL MEDICINE
James A. Coss, Jr., M.D.
Helen-Ann Garcia, M.D.
Joseph Heller, M.D.
John E. McWhorter, M.D.
Mato L. Marinovich, M.D.
Milovan T. Rakic, M.D.
John M. Rodgers, M.D.
Richard H. Runser, M.D.
Adele Tedeschi, M.D.

SENIOR STAFF ASSOCIATES
Margaret Willhite, M.A.
Joan Sobel, M.S.

STAFF ASSOCIATES
Lieselotte Aron-Hott, Ph.D.
Deborah L. Brennan, B.S.
Joseph M. Cerreta, Ph.D.
Mary Dalecki, B.A.
Michael Drillings, M.S.
Doris Tse Eng, B.A.
Sylvia H. Ford, B.S.
Donald L. Gammon, B.S.
Michelle Greene, M.A.
Amalia Hanoch, M.S.
Michamasa Kato, Ph.D.
Masanobu Kawakami, M.D.
Kalliope S. LaGamma, B.S.

SPECIAL LECTURERS
Henry Aranow, Jr., M.D.
Hylan A. Bickerman, M.D.
Andre F. Cournand, M.D.
Albert Lamb, M.D.
Hamilton Southworth, M.D.
Alfred Steiner, M.D.

LECTURERS
Nicholas Christy, M.D.
Edward E. Fischel, M.D.
Eric S. Lichtenstein, M.D.
John H. McClement, M.D.

At Mary Imogene Bassett Hospital

Associate Professors of Clinical Medicine

John S. Davis. *B.A., Hamilton, 1952; M.D., Harvard, 1956*
Walter Franck. *B.A., Yale, 1960; M.D., Columbia, 1954*
Herbert J. Marx. *B.E.E., Rensselaer Polytechnic Institute, 1954; M.D., Columbia, 1960*

Assistant Professors of Clinical Medicine

Peter L. Arquin. *M.D., Pennsylvania State, 1972*
Emery C. Herman. *B.A., Emory, 1949; M.D., Johns Hopkins, 1953*
Gary S. Hoffman. *B.A., Harpur, 1964; M.S., Howard, 1967; M.D., Medical College of Virginia, 1971*
Richard J. Horner. *B.A., Dartmouth, 1966; M.D., Harvard, 1969*
Alan J. Kozak. *B.A., Rochester, 1965; M.D., 1969*

Don V. Lewis. *B.A., North Carolina, 1967; M.D., 1971*
William H. Mook. *B.A., Wesleyan, 1941; M.D., Columbia, 1944*
David S. Pratt. *B.A., New Hampshire, 1967; M.D., Tufts, 1971*
Allan G. Ramsay. *B.A., Western Ontario, 1947; M.D., 1948*
William H. Ramsey. *B.A., Dartmouth, 1967; M.D., Columbia, 1970*
Richard E. Reese. *B.A., Dartmouth, 1965; M.D., Harvard, 1969*
Dennis A. Savoie. *B.A., Providence, 1967; M.D., Vermont, 1971*
Robert S. Sioussat. *B.A., Wesleyan, 1946; M.D., Columbia, 1951*
William Streck. *B.S., Oklahoma State, 1968;M.D., Missouri, 1973*
David S. Svahn. *B.S., Massachusetts Institute of Technology, 1960; M.D., Columbia, 1965*
David W. Vaules. *B.A., Dartmouth, 1960; B.M.S., 1961; M.D., Rochester, 1963*
Gary Weaver. *B.A., Goshen, 1964; M.D., Kansas, 1968*

Assistant Clinical Professor

Donald O. Pollock. *B.A., Hamilton, 1951; M.D., Harvard, 1955*

INSTRUCTOR IN CLINICAL MEDICINE
Carolyn I. Mook, M.D.

ASSISTANT IN CLINICAL MEDICINE
Carole L. Nunamaker, M.D.

At Harlem Hospital

Professors

John Lindenbaum. *B.A., Cornell, 1954; M.D., Harvard, 1959*
Gerald E. Thomson. *B.S., Queens, 1955; M.D., Howard, 1959*

Clinical Professors

Harold S. Ballard. *B.A., California (Los Angeles), 1948; M.D., Meharry, 1952*
Kenneth Sterling. *B.A., Harvard, 1940; M.D., Johns Hopkins, 1943*

Associate Professors of Clinical Medicine

David Jocelyn Clain. *M.B., Ch.B., Capetown, 1959; M.D., 1968*
Charles P. Felton. *B.Sc., Xavier, 1949; M.D., Geneva, 1956*

Associate Clinical Professors

George C. Branche. *B.A., Bowdoin, 1944; M.D., Boston, 1948*
John B. Cromie. *M.D., Belfast (Northern Ireland), 1949*
William R. Cunnick, Jr. *B.A., Princeton, 1947; M.D., Columbia, 1951*
Jeanne A. Smith. *B.A., Sarah Lawrence, 1953; M.D., New York University, 1957*
Charles M. Yergan. *B.S., Columbia, 1944; M.D., 1947*

Assistant Professors

Anne M. Briscoe. *M.A., Vassar, 1945; Ph.D., Yale, 1949*
Thomas J. Garrett. *M.D., Queen's (Ontario), 1971*
Clayton L. Natta (in Pathology). *B.A., McMaster (Ontario), 1957; M.D., Toronto, 1961*

Assistant Professors of Clinical Medicine

Diego Xavier Alvarez. *B.S., Manhattan, 1967; M.D., State University of New York (Downstate), 1972*

Jay Brown. *B.A., Rutgers, 1964; M.D., New York University, 1968*
Peter C. T. Dickinson. *B.S., McGill, 1958; M.D., 1962*
Jay Franklin Dobkin. *B.A., Columbia, 1968; M.D., Harvard, 1972*
Donald A. Feinfeld. *B.A., Rochester, 1965; M.D., Columbia, 1969*
Kenneth J. Herwig. *B.A., Syracuse, 1967; M.D., Pennsylvania State, 1971*
Wanda Devora Huff. *B.A., Cornell, 1969; M.D., Yale, 1973*
Steven Z. Kussin. *B.A., Columbia, 1970; M.D., Albert Einstein, 1974*

Assistant Clinical Professors

Marvin C. Cooper. *B.S., Queens, 1960; M.D., St. Louis, 1965*
Milena L. Lewis. *B.A., Bryn Mawr, 1950; M.D., Columbia, 1954*
Richard R. Prouty. *M.D., Johns Hopkins, 1948*

ASSOCIATES IN CLINICAL MEDICINE
John C. DiJohn, M.D.
Pearl D. Foster, M.D.
Paul Killian, M.D.
Anthony J. Marano, M.D.
James J. Rafter, M.D.

INSTRUCTORS IN CLINICAL MEDICINE
James T. T. Chien, M.D.
Bennie W. Chiles, M.D.
Carl A. Garnier, M.D.
Major Geer, M.D.

INSTRUCTORS (*continued*)
Michael H. Gordon, M.D.
Ross T. Hamilton, M.D.
James H. Hubert, M.D.
Herbert Knight, M.D.
Thomas J. Mattimore, M.D.
Clarence S. Murray, M.D.
Luigi M.F. Negri, M.D.
Hazeline M. Nurse, M.D.
Ruth C. Onukwue, M.D.
Velvie Anne Poque
Jon Rothenberg, M.D.
William J. Schwartz, M.D.

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Eric J. Vanderbush, M.D.
Michael D. Williams, M.D.
Lewis Z. Wright, Jr., M.D.

ASSISTANTS IN CLINICAL MEDICINE
Raynard J. McDonald, M.D.
Douglas Miller, M.D.

SPECIAL LECTURER
Cecil G. Marquez, M.D.

At Helen Hayes Hospital

Professor of Clinical Medicine and Director of Regional Bone Center

Robert Lindsay. *M.P.C.B., Glasgow, 1968; Ph.D., 1969*

At Morristown Memorial Hospital

Professor of Clinical Medicine and Director of Internal Medicine

Albert S. Klainer. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*

Assistant Clinical Professor

Joseph Ryan. *B.S., Notre Dame, 1965; M.D., State University of New York (Downstate), 1970*

INSTRUCTOR IN CLINICAL MEDICINE
Jack Butterworth, M.D.
Oscar Kruesi, M.D.
John Thompson, M.D.

At Overlook Hospital

Clinical Professors

Michael Bernstein. *M.D., New York Medical College, 1953*
William F. Minogue. *B.S., Seton Hall, 1951; M.D., New York Medical College, 1960*

Associate Professor of Clinical Medicine

John J. Gregory. *B.S., Worcester Polytechnic Institute, 1953; M.D., Albany, 1961*

Associate Clinical Professor (Family Practice)

Donald F. Kent. *B.A., Pennsylvania, 1935; M.D., 1940*

Assistant Professor of Clinical Medicine (Family Practice)

Richard N. Podell. *B.A., Amherst, 1964; M.D., Harvard, 1969*

Assistant Clinical Professors

Joel L. Duberstein. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Robert A. Fuhrman. *B.A., Clark, 1962; M.D., Chicago, 1966*
Mary T. Herald. *B.A., New Rochelle, 1965; M.D., New Jersey College of Medicine and Dentistry, 1969*
William N. Toth. *B.S., Georgetown, 1956; M.D., Hahnemann, 1960*

ASSOCIATES IN CLINICAL MEDICINE

Stephen J. Fischl, M.D.
Peter Goodluck, M.D.
William A. Tansey III, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Kevin E. Bell, M.D.
Donald J. Brock, M.D.
H. Oliver Brown, Jr., M.D.
Kopel Burk, M.D.
Charles W. Clarke, Jr., M.D.
Andrew Coronato, Jr., M.D.
H. William Diefendorf, M.D.
Charles E. Dooley, Jr., M.D.

INSTRUCTORS (*continued*)

John T. Farry, M.D.
Robert B. Francis, M.D.
Sidney E. Friedman, M.D.
Samuel M. Gray, M.D.
Thomas V. Inglesby, M.D.
Robert P. Margie, M.D.
Sanford M. Reiss, M.D.
Melvin Rubinstein, M.D.
R. Gregory Sachs, M.D.
Robert R. Springer, M.D.
Michael Suhl, M.D.
Michael J. Tighe, M.D.
Burton Tucker, M.D.
William E. Wagner, Jr., M.D.
Richard M. Weinberg, M.D.

ASSISTANTS IN CLINICAL MEDICINE

Joseph Belladonna, M.D.
Joseph T. Faraldo, M.D.
Eugene R. Kelly, M.D.
Michael B. Kerner, M.D.
A. Ralph Kristeller, M.D.
David P. Miller, M.D.
Lawrence J. Nastro, M.D.
Steven J. Stanzione, M.D.
David Allen Worth, M.D.

At St. Luke's–Roosevelt Hospital Center

Professors

A. L. Loomis Bell. *B.S., Wesleyan, 1944; M.D., Harvard, 1947*
John F. Bertles. *B.S., Yale, 1945; M.D., Harvard, 1952*
Peter R. Holt. *B.Sc., Tolington, 1949; M.B., B.S., London, 1954*
Gerald B. Phillips. *B.A., Princeton, 1946; M.D., Harvard, 1948*

Theodore B. Van Itallie. *B.S., Harvard, 1941; M.D., Columbia, 1945*
Harvey J. Weiss. *B.A., Harvard, 1951; M.D., 1955*

Professors of Clinical Medicine

William S. Clark. *B.S., Dayton; M.D., St. Louis, 1938*
Stanley Cortell. *S.B., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*
Michael H. Grieco. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1957*
A. Gregory Jameson. *B.A., Harvard, 1937; M.D., Columbia, 1950*
Richard N. Pierson, Jr. *B.A., Princeton, 1961; M.D., Columbia, 1966*

Clinical Professors

Philip H. Hennemann. *B.A., Harvard, 1943; M.D., 1946*
Miles J. Schwartz. *B.S., Queens (New York), 1947; M.D., New York University, 1961*

Associate Professors

Robert B. Case. *B.A., Ohio Wesleyan, 1953; M.D., Columbia, 1958*
William Rosner. *B.A., Wisconsin, 1954; M.D., Albert Einstein, 1961*
F. Xavier Pi-Sunyer. *B.A., Oberlin, 1955; M.D., Columbia, 1959*

Associate Professors of Clinical Medicine

Edward M. Dwyer III. *B.A., Columbia, 1957; M.D., 1961*
Harvey G. Kemp. *B.A., Oklahoma, 1955; M.D., Johns Hopkins, 1959*
Marianne J. Legato. *B.A., Manhattanville, 1956; M.D., New York University, 1962*
Alice Maniatis. *M.D., Athens, 1960*

Associate Clinical Professors

Richard P. Ames. *B.A., Williams, 1954; M.D., Columbia, 1958*
Albert Attia. *B.A., Cornell, 1955; M.D., 1958*
C. Redington Barrett. *B.A., Yale, 1955; M.D., Columbia, 1959*
James M. Goldstone. *B.A., Harvard, 1951; M.D., 1955*
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Psychiatry

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Professor of Biochemistry

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Professors of Medical Psychology

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Professor of Social Sciences

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Health Administration

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Peter D. Bardax, J.D.
Barbara S. Cooper, M.D.
Catherine D. Crone, M.D.
Michael Goldfarb, M.S.

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Margaret L. Haynes, M.P.H.
Steven Karten, M.B.A.
Dulcy B. Miller, M.S.
Thomas A. Sherwood, M.P.H.
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Population and Family Health

Professor

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Assistant Professors

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Tropical Medicine

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Frederick D. Alley, M.D.
Brenda Breuer, Ph.D.
Peter Baglio, Sc.M.
Gary B. Beringer, D.P.H.
Richard A. Berman, M.B.A., M.H.A.
Marcia J. Cleveland, J.D.
Roy Brown, M.A.
Martin Cherkasky, M.D.
Irene J. Clark, M.P.H.
Alvin J. Conway, M.S.
Jean B. Cropper, M.P.H.
Daniel L. Drosness, M.P.H.
Gary, M. Eidsvold, M.D.
Rinaldo A. Ferrer, M.D.
Andrew C. Fleck, M.D.
Thomas J. Foley, M.S.
Stephen L. Forstenser, M.S.
Richard C. Friedman, M.D.
Bernard Fuss, M.S.
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Howard R. Kelman, Ph.D.
John T. Kolody, M.S.
Bruce G. Link
Lawrence E. McDevitt, B.A.
Mary C. McLaughlin, M.D.
Robert Markowitz, M.S.
John S. Marr, M.P.H.
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Elaine S. Millner, Ph.D.
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Margaret J. O'Brien, M.P.H.
Donna O'Hare, M.D.
Jaime Olle, M.D.
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Clarence E. Pearson, M.S.
Richard H. Perry, M.S.
Olive E. Pitkin, M.D.
Peter Rogatz, M.D.
Alan H. Rosenblut, M.B.A.
Hana Rostain, M.D.
Harvey Schoenfeld, M.S.
Joseph Sherber, M.S.
Elliot J. Simon, M.S.
Thomas J. G. Tighe, Jr., M.P.H.
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SPECIAL LECTURERS

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Samuel M. Wishik, M.D.

Radiology

Professor and Chairman

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At Presbyterian Hospital

Professors

David H. Baker. *M.D., Boston, 1951*
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Zang-Hee Cho (Physics). *B.S., Seoul National (Korea), 1960; M.S., 1962; Ph.D., Upsala, 1966*
Kent Ellis. *M.D., Yale, 1950*
Eric J. Hall (Physics). *D. Phil., Oxford, 1962; D. Sc., 1978*
Sadek Hilal. *M.D., Cairo, 1955*
Harald H. Rossi (Physics). *Ph.D., Johns Hopkins, 1942*

Professors of Clinical Radiology

William J. Casarella. *B.A., Yale, 1959; M.D., Harvard, 1963*
Frieda Feldman. *B.A., New York University, 1953; M.D., 1957*
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Ralph Schlaeger. *B.S., Wisconsin, 1942; M.D., 1945*

Adjunct Professors

Victor P. Bond. *B.A., California (Berkeley), 1943; M.D., California (San Francisco), 1945; Ph.D., California (Berkeley), 1952*
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Associate Professor of Clinical Pathology

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Associate Professors of Clinical Radiology

Thane Asch. *B.A., Columbia, 1951; M.D., Cornell, 1955*
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Adjunct Associate Professor

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Associate Clinical Professors

Kevin L. Macken. *M.D., National (Ireland), 1947*
Eric C. Martin. *M.D., St. Thomas (London), 1967*
Paul Sane. *M.D., Bucharest, 1950*

Assistant Professors

Charles R. Geard. *Ph.D., Australian National University, 1973*
Andrew Arthur Maudsley. *B.S.C., Nottingham, 1973; Ph.D., 1976*
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Assistant Professors of Clinical Radiology

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Clinical Professors

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David S. Marsden. *Ph.D., Jefferson, 1968*

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Pierre-Alix Haspil, M.D.
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Hi-Jung Pyun, M.D.
Sabino J. Rizzo, M.D.
Kenneth T. Rogers

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Theodora Serban, M.D.
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Rehabilitation Medicine

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Assistant Clinical Professors

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Jay S. Mendelsohn, M.D.
Robert Stone, M.S. (at Blythedale Children's Hospital)

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Alice Feinberg, M.S.
Roberta Roth, M.S.W.

ASSISTANTS IN CLINICAL OCCUPATIONAL THERAPY
Janet Falk-Kessler, M.A.
Laurelee Hawkins, B.S.
Frances Brandivein Kraver, B. S.
Patricia A. Miller, M.A.

Physical Therapy

Associate Professors

Ruth Dickinson (acting director of program). *B.S., Russell Sage, 1944; M.A., Columbia, 1947*
Althea M. Jones. *B.S., Panzer College of Physical Education, 1944; M.A., Columbia, 1972*

Assistant Professors

Bernadette Hecox. *B.S., Columbia, 1968; M.A., 1973*
Thomas J. Schmitz. *B.S., State University of New York (Buffalo), 1972; M.S., Boston, 1974*

ASSOCIATES IN CLINICAL PHYSICAL THERAPY
Theodore Corbitt, M.A.
Patricia Sullivan, M.A.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY
Adrienne F. Bergen, B.A.
Margaret Beyda, B.S.
Barbara Hanley, M.S.
Joseph A. Malloy, B.S.

INSTRUCTORS (*continued*)
Marion Marx, M.A.B.S.
Georgia Reidel, B.S.
Kathy A. Sack, B.S.
Diane Zuck, B.A.

ASSISTANTS IN CLINICAL PHYSICAL THERAPY
Ann B. Edgar, B.S.
Pamela Harris, B.S.

ASSISTANTS (*continued*)
James Kruse, M.S.
Lindi Oberon, B.S.
Ann L. Ovellette, B.A.
Paul Ribera, M.A.
Joan Smith, B.S.
Patricia Storjohann, M.A.
Joan E. Thomas, B.S.
Karen Tobman, M.A.
Diane L. Waithe, M.A.

Surgery

Valentine Mott Professor and Johnson & Johnson Distinguished Professor and Chairman

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

At Presbyterian Hospital

Professors

R. Peter Altman. *B.A., Colgate, 1955; M.S., Rochester, 1958; M.D., New York Medical College, 1961*
Frank Gump. *B.A., Harvard, 1951; M.D., New York University, 1955*

David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*
Mark A. Hardy. *B.A., Columbia, 1958; M.D., Albert Einstein, 1962*
Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
Robert B. Hiatt. *B.S., Wilmington, 1938; M.D., Cincinnati, 1942*
Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
Thomas J. Krizek. *B.S., Marquette, 1954; M.D., 1957; M.A., Yale, 1974*
John B. Price, Jr. *M.A., Texas, 1948; M.D., Johns Hopkins, 1950*

Professors of Clinical Surgery

Harold G. Barker. *B.A., Utah, 1939; M.D., Pennsylvania, 1943*
Frederick O. Bowman, Jr. *B.A., North Carolina, 1948; M.D., Pennsylvania, 1952*
Avram M. Cooperman. *B.S., Brooklyn, 1960; M.D., Howard, 1965*
Bard Cosman. *B.A., Columbia, 1952; M.D., 1955*
James R. Malm. *B.A., Princeton, 1949; M.D., Columbia, 1946*
Alfred M. Markowitz. *B.A., New York University, 1948; M.D., Washington (St. Louis), 1952*
Arthur B. Voorhees, Jr. *B.A., Virginia, 1943; M.D., Columbia, 1946*

Associate Professors

David Bregman. *B.A., New York University, 1961; M.D., State University of New York (Downstate), 1965*
Paul Lo Gerfo. *B.S., Rensselaer Polytechnic Institute, 1961; M.S., 1963; M.D., State University of New York (Upstate), 1967*
Henry M. Spotnitz. *B.A., Harvard, 1962; M.D., Columbia, 1966*

Associate Professor of Pathology

Nicole Suciu-Foca. *B.S., Bucharest (Rumania), 1954; M.S., 1960; Ph.D., 1965*

Associate Professors of Clinical Surgery

Joseph A. Buda. *B.A., Columbia, 1951; M.D., Cornell, 1955*
Carl R. Feind. *B.A., Texas, 1940; M.D., Columbia, 1950*
Kenneth Forde. *B.S., College of the City of New York, 1954; M.D., Columbia, 1959*
Alfred Jaretzki III. *B.A., Harvard, 1941; M.D.,1944*
Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*
Francis C. Symonds, Jr. *B.A., Princeton, 1947; M.D., Columbia, 1951*
Bashir Ahmad Zikria. *B.S., George Washington, 1954; M.D., Johns Hopkins, 1958*

Associate Clinical Professors

Robert G. Bertsch. *B.A., Carleton, 1953; M.D., Columbia, 1957*
Charles W. Findlay. *B.A., Yale, 1939; M.D., Columbia, 1943*
David M. Ju. *M.D., National Medical College (Shanghai), 1944; Med.Sc.D., Columbia, 1954*
Sven Kister. *B.A., Dartmouth, 1955; M.D., Harvard, 1958*
John N. Schullinger. *B.A., Princeton, 1951; M.D., Columbia, 1955*
Philip D. Wiedel. *B.S., Cannes (France), 1934; B.A., Columbia, 1938; M.D., 1941*

Senior Research Associate

William H. Dobelle. *B.A., Johns Hopkins, 1964; Ph.D., Utah, 1974*

Senior Research Associate of Biochemistry

David Elwyn. *B.A., Columbia, 1941; Ph.D., 1950*

Assistant Professors

Mary H. McGrath. *B.A., New Rochelle, 1966; M.D., St. Louis, 1970*
Roman Nowygrod. *B.A., Harvard, 1966; M.D., Columbia, 1970*
Collin J. Weber. *B.A., Princeton, 1967; M.D., Columbia, 1971*

Assistant Professor of Biochemistry

Irving Goodman. *B.A., Colorado, 1939; M.S., 1941; Ph.D., 1944*

Assistant Professor of Clinical Surgery

Ivo P. Janecka. *M.D., Charles (Prague), 1965*

Assistant Clinical Professors

Paul H. Gerst. *B.A., Columbia, 1948; M.D., 1952*
Leif O. Holgersen. *B.A., Taylor, 1960; M.D., New Jersey College of Medicine and Dentistry, 1965*

RESEARCH ASSOCIATES
Malayappa Jeevanandam, Ph.D.
Duncan L. McCollester, Ph.D.
Shanta M. Modak, M.D., Ph.D.
Ben T. Sandler, M.D.

INSTRUCTORS IN CLINICAL SURGERY
Vincent W. Ansanelli, M.D.
Robert G. Blabey, M.D.
Harold M. Bruck, M.D.
Sherman M. Bull, M.D.
Leslie Mark Kutscher, M.D.
Mark David Sherman, M.D.
Charles A. Slanetz, M.D.
George J. Todd, M.D.
James S. Todd, M.D.

SENIOR STAFF ASSOCIATES
Jerome Martin Dubroff
George B. Haasler
Hiroshi Hasheguchi, M.D.
German Lipovetsky
Rita Lipton, B.A.

STAFF ASSOCIATES
Narihito Kuromoto
Esther Meyer, M.A.
Kazunari Satake
Tadahiro Taguchi
Yoshi Takeda

SPECIAL LECTURERS
William A. Gardner, M.D.
Raffaele Lattes, M.D.

LECTURERS
Shivaji B. Bhonslay, M.D.
George Escher, M.D.

WRITER-IN-RESIDENCE
Harry Schwartz, Ph.D.

At Mary Imogene Bassett Hospital

Professor of Clinical Surgery

David A. Blumenstock. *B.A., Union (Schenectady), 1949; M.D., Cornell, 1953*

Associate Clinical Professors

Rodman D. Carter (in Urology). *B.A., Harvard, 1950; M.D., Columbia, 1954*
John E. Olson. *B.A., Kansas, 1953; M.D., 1956*

Assistant Professors of Clinical Surgery

James Bordley IV. *B.A., Yale, 1965; M.D., Columbia, 1970*
Patrick Allen Dietz. *B.A., Holy Cross, 1966; B.M. Sci., Dartmouth, 1968; M.D., Harvard, 1970*
Roger W. MacMillan III. *B.S., Trinity, 1961; M.D., Columbia, 1965*

Assistant Clinical Professors

Edward J. Carey, Jr. *B.A., Harvard, 1954; M.D., Cornell, 1958*
Webster J. Stayman. *B.S., St. Lawrence, 1966; M.D., Jefferson Medical College, 1970*

At Harlem Hospital

Associate Professor of Clinical Surgery

Harold P. Freeman. *B.A., Catholic, 1954; M.D., Howard, 1958*

Associate Clinical Professors

David M. Carberry. *Ph.D., Providence, 1947; M.D., Jefferson, 1951*
Robert F. Morton. *M.D., Meharry, 1944*
John W. Parker, Jr. *B.A., Fisk, 1942; M.D., Meharry, 1945*

Assistant Professor of Otolaryngology

Lee David Eisenberg. *B.S., St. John's (New York), 1967; M.D., State University of New York (Downstate), 1971*

Assistant Professors of Clinical Surgery

Barbara Barlow. *B.A., New York University, 1946; D.D.S., Columbia, 1950; M.D., 1953*
Ganepola A. Ganepola. *B.S., Kyoto, 1966; M.D., 1967*
Mohamad H. Parsa. *B.S., Tehran, 1957; M.D., 1963*

Assistant Clinical Professors

Salvatore G. Cinque. *B.S., College of the City of New York, 1943; M.D., Loyola, 1946*
James E. C. Norris. *B.A., Hampton Institute, 1953; M.D., Case Western Reserve, 1957*
Ruben Oropeza. *B.S., Mexico, 1948; M.D., 1955*
Carlton E. Patrick. *M.D., University of the Saar (Hamburg, Germany), 1957*

Assistant Clinical Professor of Neurological Surgery

Robert W. Schick. *B.A., Columbia, 1948; M.D., New York Medical College, 1952*

ASSOCIATES IN CLINICAL SURGERY
Matthew D. Branche, M.D.
Rajinder Gandhi, M.D.
Urbano K. Guarin, M.D.
Malcolm Moley, M.D.
Pierre G. Van Bockstaele, M.D.

INSTRUCTORS IN CLINICAL SURGERY
Egel Francois, M.D.
Edoardo Giuliani, M.D.
Robert W. Holtzman, M.D.
Avtar S. Josen, M.D.

INSTRUCTORS (*continued*)
William L. King, M.D.
Barnett Miller, M.D.
John R. Nailor, M.D.
Gurmukh S. Walha, M.D.

INSTRUCTOR IN CLINICAL NEUROSURGERY
George V. DiGiocinto, M.D.

ASSISTANT IN CLINICAL NEUROSURGERY
Roger Antoine, M.D.

At Overlook Hospital

Associate Clinical Professor

Richard W. Brenner. *B.A., Princeton, 1954; M.D., Columbia, 1958*

Assistant Clinical Professors

David Befeler. *B.A., Columbia, 1955; M.D., 1959*
Robert Specht. *B.A., Princeton, 1944; M.D., Columbia, 1946*

ASSOCIATES IN CLINICAL SURGERY
Bruce J. Brener, M.D.
John H. Cooper, M.D.
Douglas M. Costabile, M.D.
John Joseph Hudock, M.D.

ASSOCIATES (*continued*)
Frank F. Kaiser, M.D.
Robert E. Knapp, M.D.
Daniel L. Moore, M.D.
Saverio J. Panzarino, M.D.
Morton Perkoff, M.D.

ASSOCIATES (*continued*)
Jerome Spivack, M.D.
John V. Triolo, M.D.
E. Bruce Whitesell, M.D.
Charles J. Wittmann, Jr., M.D.

At St. Luke's-Roosevelt Hospital Center

Professors of Clinical Surgery

J. William Littler. *B.S., Duke, 1938; M.D., 1942*
Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*
Walter Wichern. *B.S., Mount Union, 1942; M.D., Harvard, 1945*

Clinical Professor

W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*

Associate Clinical Professors

Richard G. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Joseph Ford. *B.A., Harvard, 1942; M.D., Columbia, 1945*
George E. Green. *B.S., Yale, 1952; M.D., 1956*
Charles C. Harrold, Jr. *B.S., Georgia, 1937; M.D., Harvard, 1941*
John E. Hutchinson. *B.S., Morehouse, 1953; M.D., Meharry, 1957*
Robert E. McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

Assistant Clinical Professors

Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*
Robert T. Edmonds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
Conrad G. Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Haroutane A. Mekhjian. *B.S., American (Beirut), 1961; M.D., 1965*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Carl S. Oakman. *B.A., Harvard, 1938; M.D., Tufts, 1943*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS IN CLINICAL SURGERY
Arnold Belgraier
Gregory W. Brabbee, M.D.
Peter B. Cinelli, M.D.
John F. Crowe, M.D.
Clayton R. De Haan, M.D.
Clarence A. Dunn, Jr., M.D.
Peter B. Fodor, M.D.
Philip E. Gordon, M.D.
James F. Grillo
Joshua M. Kaplan, M.D.
John J. Keyser, M.D.
Farid J. Khoury, M.D.
Danne R. Lorieo, M.D.

INSTRUCTORS IN CLINICAL SURGERY (*continued*)
Stephan G. Lynn, M.D.
Richard A. Marks, M.D.
Antoine S. Munther, M.D.
William G. Ramey, M.D.
Walter H. Stingle, M.D.
Paul I. Tomljanovich, M.D.
Hiroshi Washio, M.D.

STAFF ASSOCIATE
Mikio Kamiyama, Ph.D.

Urology

Professor and Chairman

Carl A. Olsson. *B.A., Bowdoin, 1959; M.D., Boston, 1963*

At Presbyterian Hospital

Professor of Clinical Urology

Ralph J. Veenema. *B.A., Calvin, 1952; M.D., Jefferson, 1945*

Associate Professor

Ralph De Vere White. *B.Ch., BAO., University College (Dublin), 1964; M.D., 1970*

Associate Professor of Clinical Pathology

Myron Tannenbaum. *B.A., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

Associate Professors of Clinical Urology

Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

Associate Clinical Professors

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Assistant Professor of Clinical Pathology

Philip Tomashefsky. *Ph.D., New York University, 1969*

Assistant Professors of Clinical Urology

John D. Birkoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*

Assistant Clinical Professors

Elliot L. Cohen. *B.A., New York University, 1963; M.D., Chicago, 1967*
Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*

ASSOCIATE IN CLINICAL UROLOGY
Leonard J. Rudin
Charles E. Umhey, Jr., M.D.
James Umhey, M.D.

INSTRUCTOR IN CLINICAL UROLOGY
Richard Kroll, M.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor of Surgery

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

INSTRUCTOR IN CLINICAL UROLOGY
Bruce MacDonald, M.D.

At Overlook Hospital

Assistant Clinical Professor

Robert R. White. *B.A., Amherst, 1949; M.D., Rochester, 1954*

ASSOCIATES IN CLINICAL UROLOGY
Kenneth L. Day, M.D.
Pascal A. Pironti, M.D.

ASSOCIATES (*continued*)
Joseph S. Ritter, M.D.
Morey Wosnitzer, M.D.

At St. Luke's-Roosevelt Hospital Center

Clinical Professor

Russell W. Lavengood, Jr. *B.A., St. Joseph's (Indiana), 1947; M.D., Louisville, 1951*

Associate Clinical Professors

Manuel Fernandez. *M.D., Coimbra (Portugal), 1956*
Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*
Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

ASSOCIATES IN CLINICAL UROLOGY

Arumbi P. Subramaniam, M.D.
Pellegrino J. Tozzo, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Philip C. Cea, M.D.
Harry S. David, M.D.

INSTRUCTORS (*continued*)

Alfred F. Fretz, M.D.
Waleed G. Maloof, M.D.
Constantine Photos, M.D.
Joseph D. Putignano, M.D.
Alexander Sotiropoulos, M.D.

INSTRUCTORS (*continued*)

Rudolph D. Talarico, M.D.
James W. Vastola, M.D.

ASSISTANTS IN CLINICAL UROLOGY

Abas Rezvani, M.D.
Damir Velcek, M.D.

First-Year Postgraduate Appointments: Class of 1980

Ahlborn, Thomas N. *Presbyterian Hospital, New York, New York.* Surgery
Aisen, Mindy L. *Mount Sinai Hospital of Cleveland, Cleveland, Ohio.* Flexible
Allan, Anne E. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Anderson, Nancy A. *Children's Center, University Hospital, Seattle, Washington.* Pediatrics
Anthony, Kent E. *University of Alabama Medical Center, Birmingham, Alabama.* Family Practice
Apfelbaum, Terri F. *Presbyterian Hospital, New York, New York.* Medicine
Appel, Rena. *Roosevelt Hospital, New York, New York.* Medicine
Bello, Jacqueline A. *Mary Imogene Bassett Hospital, Cooperstown, New York.* Flexible
Berkeley, Hope A. *St. Luke's Hospital Center, New York, New York.* Medicine
Bernstein, Carol A. *St. Luke's Hospital Center, New York, New York.* Medicine
Bernstein, Wendy J. *The New York Hospital, New York, New York.* Psychiatry
Bluh, Donald C. *New Rochelle Hospital, New Rochelle, New York.* Medicine
Blumenkehl, Mark L. *Brookdale Hospital Center, Brooklyn, New York.* Medicine
Boakye-Adjei, Oheneba. *St. Vincent's Hospital, New York, New York.* Surgery
Bogen, Craig. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Bransford, Kent J. *Cedars-Sinai Medical Center, Los Angeles, California.* Medicine
Brudney, Karen F. *Harlem Hospital Center, New York, New York.* Medicine
Cartelli, Nancy A. *Case Western Reserve University Hospitals, Cleveland, Ohio.* Pediatrics
Casper, Theodore. *St. Luke's Hospital Center, New York, New York.* Medicine
Chow, John H. S. *The New York Hospital, New York, New York.* Pathology
Cohen, David E. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Cuadros, Cesar L. *University of California San Diego Affiliated Hospitals, San Diego, California.* Surgery
Czaja, Mark J. *University Hospitals of Cleveland, Cleveland, Ohio.* Medicine
Davey, Richard T. *University Hospitals, Boston, Massachusetts.* Medicine
DeAngelis, Lisa M. *Presbyterian Hospital, New York, New York.* Medicine
Deland, Jonathan T. *Roosevelt Hospital, New York, New York.* Surgery
Delaney, Kathleen A. *New York University Bellevue Hospital, New York, New York.* Medicine
Dennison, Allen M. *Rhode Island Hospital, Providence, Rhode Island.* Medicine
Dennison, Jane M. *Rhode Island Hospital, Providence, Rhode Island.* Pediatrics
Dillon, Peter W. *Presbyterian Hospital, New York, New York.* Surgery
Dolinsky, Paul A. *Rhode Island Hospital, Providence, Rhode Island.* Medicine
Downey, Richard S. *Washington University Affiliated Hospitals, St. Louis, Missouri.* Surgery
Dubin, Leslie B. *Mount Sinai Hospital, New York, New York.* Medicine
Dwosh, Jack. *St. Luke's Hospital Center, New York, New York.* Surgery
Ecker, Hendrik M. *Hospitals of the University of Pennsylvania, Philadelphia, Pennsylvania.* Medicine
Engler, Alan M. *Montefiore Hospital Center, Bronx, New York.* Surgery
Engler, Danielle E. *Presbyterian Hospital, New York, New York.* Pediatrics
Epstein, Joel. *New England Deaconess Hospital, Boston, Massachusetts.* Medicine
Fakharzadeh, Frederick F. *Roosevelt Hospital, New York, New York.* Surgery

Farrell, Matthew M. *The Somerset Hospital, Somerville, New Jersey.* Family Practice
Fehrs, Laura J. *University of California Hospitals, Los Angeles, California.* Pediatrics
Feiman, Nancy B. *Montefiore Hospital Center, Bronx, New York.* Medicine
Feller, Matthew F. *Montefiore Hospital Center, Bronx, New York.* Medicine
Fisher, William A. *St. Luke's Hospital Center, New York, New York.* Medicine
Fithian, Eileen M. *Lenox Hill Hospital, New York, New York.* Medicine
Fox, Joyce E. *Rainbow Babies and Children's Hospital, Cleveland, Ohio.* Pediatrics
Fox, Susan C. *Presbyterian Hospital, New York, New York.* Medicine
Friedmann, Martin L. *Georgetown University, Washington, D.C.* Medicine
Gardine, Robert L. *Roosevelt Hospital, New York, New York.* Surgery
Gelfand, Janice M. *Montefiore Hospital Center, Bronx, New York.* Medicine
Geller, Peter L. *Presbyterian Hospital, New York, New York.* Surgery
Genkins, Steven M. *University of California Hospitals, San Francisco, California.* Medicine
Geraci, Kira A. *The New York Hospital, New York, New York.* Pediatrics
Goland, Robin S. *Presbyterian Hospital, New York, New York.* Medicine
Goodrich, James T. *Presbyterian Hospital, New York, New York.* Surgery
Graney, John F. *Harlem Hospital Center, New York, New York.* Medicine
Griffin, Patrick H. *Presbyterian Hospital, New York, New York.* Medicine
Grundfest, Warren S. *University of California Hospitals, Los Angeles, California.* Surgery
Hamm, Peter G. *St. Luke's Hospital Center, New York, New York.* Medicine
Handlin, Davis S. *Roosevelt Hospital, New York, New York.* Medicine
Handwerger, Sandra D. *Beth Israel Hospital, New York, New York.* Medicine
Hardy, Howard W. *Roosevelt Hospital, New York, New York.* Surgery
Herbert, Robert A. *Baylor College Affiliated, Houston, Texas.* Medicine
Hollenberg, James P. *The New York Hospital, New York, New York.* Medicine
Hotes, Richard E. *The Hartford Hospital, Hartford, Connecticut.* Flexible
Howell, John T. *Hunterdon Medical Center, Flemington, New Jersey.* Family Practice
Illowsky, Barbara P. *Washington Hospital Center, Washington, D.C.* Medicine
Kawata, Carol L. *Los Angeles County-Harbor General Hospital, Torrance, California.* Pediatrics
Kiest, Curtis A. *University of California Hospitals, San Francisco, California.* Orthopaedic Surgery
Kumaki, David J. *Boston City Hospital, Boston, Massachusetts.* Medicine
Langendorf, Frederick. *New York University Medical Center, New York, New York.* Medicine
LaPook, Jonathan P. *Presbyterian Hospital, New York, New York.* Medicine
Larach, David R. *Hospital of University of Pennsylvania, Philadelphia, Pennsylvania.* Anesthesiology
LaSala, Patrick A. *Beth Israel Hospital, Boston, Massachusetts.* Surgery
Lauderdale, Bradley. *Mary Imogene Bassett Hospital, Cooperstown, New York.* Medicine
Lee, Dennis E. *Boston City Hospital, Boston, Massachusetts.* Medicine
Leff, Steven R. *Roosevelt Hospital, New York, New York.* Medicine
Legant, Paul M. *North Carolina Memorial Hospital, Chapel Hill, North Carolina.* Orthopaedic Surgery
Levin, Daniel H. *Bronx Municipal Hospital Center, Bronx, New York.* Medicine
Lewis, Barbara. *Mary Imogene Bassett Hospital, Cooperstown, New York.* Medicine
Lipkin, Alan F. *Baylor College Affiliated, Houston, Texas.* Surgery
Lipschitz, Sherman. *New York University Medical Center, New York, New York.* Pathology.

Lurio, Joseph G. *Montefiore Hospital Center, Bronx, New York.* Family Practice
Lyle, Henry R. *University of California (Davis) Affiliated, Davis, California.* Medicine
McCann, Peter D. *St. Vincent's Hospital, New York, New York.* Surgery
McCluskey, Leo F. *University of Michigan Affiliated, Ann Arbor, Michigan.* Medicine
McKinley, George F. *St. Luke's Hospital Center, New York, New York.* Medicine
Macchi, Paul. *Mount Zion Hospital, San Francisco, California.* Radiology
Malin, Barnet D. *Cedars-Sinai Medical Center, Los Angeles, California.* Medicine
Mandelbaum, David E. *Yale-New Haven Medical Center, New Haven, Connecticut.* Pediatrics
Manelis, Jocelyn B. *Montefiore Hospital Center, Bronx, New York.* Medicine
Manevitz, Alan Z. A. *The New York Hospital, New York, New York.* Psychiatry
Maxwell, Celia. *Howard University Hospital, Washington, D.C.* Medicine
Mazzeo, Vincent P. *Hospital of University of Pennsylvania, Philadelphia, Pennsylvania.* Radiology
Minikes, Neil I. *Presbyterian Hospital, New York, New York.* Pediatrics
Moley, Jeffrey F. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery
Morris, Valery L. *Baylor College Affiliated, Houston, Texas.* Pediatrics
Murphy-Chutorian, Douglas R. *New York University–Bellevue Hospital, New York, New York.* Medicine
Navia, Bradford A. *Montefiore Hospital Center, Bronx, New York.* Medicine
Newman, Bernard P. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery
Nunez, Domingo C. *Lenox Hill Hospital, New York, New York.* Surgery
O'Connell, Genevieve C. *Waterbury Hospital, Waterbury, Connecticut.* Medicine
O'Laughlin, Martin P. *Baylor College Affiliated, Houston, Texas.* Pediatrics
Oliver, Dennis C. *Roosevelt Hospital, New York, New York.* Medicine
Orentreich, David S. *Roosevelt Hospital, New York, New York.* Medicine
Pankewycz, Oleh G. *University of Chicago Clinics, Chicago, Illinois.* Medicine
Paradis, Marc A. *Walter Reed Army Medical Center, Washington, D.C.* Medicine
Parnes, Anita L. *The New York Hospital, New York, New York.* Obstetrics and Gynecology
Paul, Matthew D. *Beth Israel Hospital, New York, New York.* Medicine
Pfeffer, Sondra J. *Baylor College Affiliated, Houston, Texas.* Medicine
Quevedo, Jonathan P. *Overlook Hospital, Summit, New Jersey.* Flexible
Radin, Arthur I. *University of California Hospitals, Los Angeles, California.* Medicine
Ressa, Ames D. *St. Vincent's Hospital, New York, New York.* Surgery
Roman, Mary J. *Harlem Hospital Center, New York, New York.* Medicine
Romano, Angela A. *Presbyterian Hospital, New York, New York.* Pediatrics
Rosenfeld, Suzanne. *Mount Sinai Hospital, New York, New York.* Pediatrics
Rund, Deborah G. *Presbyterian Hospital, New York, New York.* Medicine
Saber, William L. *University of Colorado Affiliated, Denver, Colorado.* Surgery
Sahar, David I. *Ohio State University Hospitals, Columbus, Ohio.* Medicine
Sakwa, Marc P. *Peter Bent Brigham Hospital, Boston, Massachusetts.* Surgery
Schiz, Steven L. *Hospitals of University Health Center of Pittsburgh, Pittsburgh, Pennsylvania.* Pediatrics
Schlam, Julia F. *Boston Hospital for Women, Boston, Massachusetts.* Obstetrics and Gynecology
Schloss, Stephen B. *New England Deaconess Hospital, Boston, Massachusetts.* Surgery
Schubert, Armin. *National Naval Medical Center, Bethesda, Maryland.* Medicine
Scott, Wendell C. *Roosevelt Hospital, New York, New York.* Surgery
Serdarevic, Olivia N. *Lenox Hill Hospital, New York, New York.* Pediatrics

Sessler, Daniel I. *University of California Hospitals, Los Angeles, California.* Pediatrics
Shapiro, Peter A. *Bronx Municipal Hospital Center, Bronx, New York.* Medicine
Sharanevych, Irene S. *New York University–Veteran's Administration Hospital, New York, New York.* Medicine
Softness, Barney. *Presbyterian Hospital, New York, New York.* Pediatrics
Solomon, Meryl L. *Brookdale Hospital Center, Brooklyn, New York.* Family Practice
Starker, Paul M. *Presbyterian Hospital, New York, New York.* Surgery
Steinberg, Robin F. *Lenox Hill Hospital, New York, New York.* Medicine
Sullivan, Mary Anna. *McLean Hospital, Boston, Massachusetts.* Psychiatry
Swiderski, Daborah M. *Montefiore Hospital Center, Bronx, New York.* Medicine
Teichman, Sam L. *Lenox Hill Hospital, New York, New York.* Medicine
Thomas, Natalia E. *Children's Hospital, Washington, D.C.* Pediatrics
Ultmann, Monica H. *Presbyterian Hospital, New York, New York.* Pediatrics
Waltner, Nancy M. *The New York Hospital, New York, New York.* Obstetrics and Gynecology
Weinstock, Ruth S. *Presbyterian Hospital, New York, New York.* Medicine
Wescoe, Sybil. *Presbyterian Hospital, New York, New York.* Pediatrics
West, Sally A. *Montefiore Hospital Center, Bronx, New York.* Medicine
Wiznia, Andrew A. *Bronx Municipal Hospital Center, Bronx, New York.* Pediatrics
Yellin, Tova. *Bronx Municipal Hospital Center, Bronx, New York.* Pediatrics
Zeidel, Mark L. *Peter Bent Brigham Hospital, Boston, Massachusetts.* Medicine
Zwas, Felice R. *Presbyterian Hospital, New York, New York.* Medicine

Student Roster: Class of 1981

Adams, Roberta Harris. Bronxville, N.Y. *B.S., Antioch, 1977*
Aiken, Brenda. Brooklyn, N.Y. *B.A., Barnard, 1977*
Aldea, Gabriel-Sorin. New York, N.Y. *B.A., Columbia, 1977*
Altshuler, Steven Lane. Englewood, N.J. *B.A., Rochester, 1977*
Amador, Jorge Luis. Bronx, N.Y. *B.A., Princeton, 1975*
Apfelbaum, Mark. New York, N.Y. *B.A., Yeshiva, 1977*
Appleton, Abraham T. Englewood, N.J. *B.A., Yeshiva, 1976*
Aranow, Robert Bittman Hastings-on-Hudson, N.Y. *B.A., Harvard, 1977*
Arildsen, Ronald Curtis Endicott, N.Y. *B.S., M.S., Yale, 1977*
Auletta, Maria Jackson Heights, N.Y. *B.S., St. Francis, 1977*
Ausubel, Kalman Brooklyn, N.Y. *B.A., Yeshiva, 1977*
Bauman, Phillip Allen Larchmont, N.Y. *B.A., Harvard, 1976*
Beane, Susan Jo Bronx, N.Y. *B.A., Princeton, 1977*
Beitz, Julie Germaine Jackson Heights, N.Y. *B.A., Barnard, 1977*
Blackwood, Roland Alexander New Rochelle, N.Y. *B.A., Columbia, 1976*
Booth, Richard Linn Cambridge, Ohio *B.A., Princeton, 1977*
Broom, Michael Joseph Sudbury, Mass. *B.A., Dartmouth, 1977*
Butler, Annette Louise Laurelton, N.Y. *B.S., Queens, 1977*
Byrne, Jeffrey Michael Sherborn, Mass. *B.S., Massachusetts, 1977*
Cagliostro, Stephen Bronx, N.Y. *B.A., Columbia, 1977*
Capaldo, Maria Elena New York, N.Y. *B.S., Hunter, 1970*
Carson, JoAnn Monroe, N.Y. *B.S., Yale, 1977*
Castiglione, Charles L. Hamden, Conn. *B.A., Yale, 1977*
Chandra, Elizabeth Stuart New York, N.Y. *B.A., Goucher, 1972*
Clinton, Henry Louis New York, N.Y. *B.A., Columbia, 1977*
Cohen, Paul Jay Bronx, N.Y. *B.A., Columbia, 1977*
Cohen, Ron New York, N.Y. *B.A., Princeton, 1977*
Collymore, Victor Alvin Bronx, N.Y. *B.A., Columbia, 1977*

Colon-Linares, Juan Ponce, Puerto Rico *Iowa*
Cotto, Sonla Brooklyn, N.Y. *B.A., Barnard, 1977*
Cutillo, Robert Paul Montclair, N.J. *B.S., Georgetown, 1977*
Degreef, Gustav Lido Beach, N.Y. *B.A., Hofstra, 1976*
Deluty, Sheldon Howard Bronx, N.Y. *B.A., Columbia, 1977*
Dhungel, Rajiv Upadhyay Hastings-on-Hudson, N.Y. *Dover (England)*
Diao, Edward Flushing, N.Y. *B.A., Harvard, 1977*
Diaz, Angela New York, N.Y. *City College, 1976*
Dick, Alison B. Westbury, N.Y. *B.S., Cornell, 1977*
Drucker, Elizabeth Anne San Mateo, Calif. *B.A., Princeton, 1977*
Ehrlich, Carol Margaret New York, N.Y. *B.A., Barnard, 1977*
Elliott, Deirdre Davina New York, N.Y. *B.S., Columbia, 1977*
Feit, David Louis Brooklyn, N.Y. *B.A., Brandeis, 1977*
Feld, Randy Jay Massapequa Park, N.Y. *B.A., Cornell, 1977*
Flatow, Evan Lloyd New York, N.Y. *B.A., Princeton, 1977*
Freedman, Susan Dee Palo Alto, Calif. *B.A., Yale, 1975*
Freyberg, Christopher Wm. Pleasantville, N.Y. *B.S., Wisconsin, 1977*
Gendler, Ellen Caryn Bellmore, N.Y. *B.A., Wesleyan, 1977*
Gertler, Jonathan Paul New York, N.Y. *B.A., Wesleyan, 1977*
Glantz, Sanford David Rosedale, N.Y. *B.S., SUNY (Stony Brook), 1977*
Goldberg, David Michael Stamford, Conn. *B.A., Yale, 1974*
Goldstein, Nannette Buffalo, N.Y. *B.A., SUNY (Stony Brook), 1973*
Golub, Robert Matthew Newburgh, N.Y. *B.A., Princeton, 1977*
Gravallese, Ellen M. Andover, Mass. *B.A., Harvard, 1977*
Grossl, Eugene Andrew New York, N.Y. *B.A., Columbia, 1977*
Grunberg, Eva Lillian Flushing, N.Y. *B.A., Queens, 1977*
Hayes, Dewleen Gay Atherton, Calif. *B.A., Stanford, 1968*
Holubowitch, Edward J. Warwick, N.Y. *B.A., Dartmouth, 1977*
Hresko, Michael Timothy Flint, Mich. *B.A., Harvard, 1976*
Katzman, Michael Brooklyn, N.Y. *B.A., Columbia, 1977*
Keefe, Bernadette Chestertown, Md. *B.A., St. John's, 1976*
Kellman, Howard David Monongahela, Pa. *B.A., Stanford, 1974*
Kirby, Mathis Ann Forest Hills, N.Y. *B.A., Mount Holyoke, 1977*
Kleiman, Neal Stephen Staten Island, N.Y. *B.A., Princeton, 1977*
Kutscher, Martin Lyle Scarsdale, N.Y. *B.A., Columbia, 1977*
Kwon, Peter Heejoon, Jr. Los Angeles, Calif. *B.S., Massachusetts Institute of Technology, 1977*
Landaw, Irene Sarah Staten Island, N.Y. *B.A., SUNY (Purchase), 1976*
Landy, Harold Stephen New York, N.Y. *B.A., Harvard, 1972*
Lanzara, Barbara Lynne New York, N.Y. *B.S., State University of New York (Albany), 1974*
Le, Xuan Ha Thi Clarence, N.Y. *B.S., SUNY (Buffalo), 1977*
Lee, Timothy Leslie Sacramento, Calif. *B.A., Johns Hopkins, 1977*
Lehmann, Harold Philip New York, N.Y. *B.A., Columbia, 1977*
Lent, Kenneth David Kenmore, N.Y. *Sc.B., Brown, 1977*
Levin, Marc Stephen New Rochelle, N.Y. *B.S., Massachusetts Institute of Technology, 1977*
Levine, Alice Carla New York, N.Y. *B.A., SUNY (Albany), 1973*
Lipman, Steve Paul Huntington, N.Y. *B.A., Amherst, 1977*
Louard, Rita Jean Woodmere, N.Y. *B.A., Bryn Mawr, 1976*
Lubka, Rhonda Hartford, Conn. *B.A., Barnard, 1977*
Ludwig, Robert Lewis Merrick, N.Y. *B.A., Cornell, 1977*
Markowitz, Steven B. Baltimore, Md. *B.A., Yale, 1975*
Marshall, Mitchell H. New York, N.Y. *B.A., Brandeis, 1974*
Maun, Steve Joseph
Miro, Claudio Lazaro West Orange, N.J. *B.A., Princeton, 1977*

Moss, Barbara Ann Bronx, N.Y. *B.A., Barnard, 1967*
Moy, Larry Bronx, N.Y. *B.S., City College, 1977*
Muraszko, Karin Marie New Providence, N.J. *B.S., Yale, 1977*
Murphy, Stephen Gerard North Attleboro, Mass. *B.S., Columbia, 1977*
Muschel, Michael J. Monsey, N.Y. *B.A., Yeshiva, 1977*
Nercessian, Ohannes A. Bronx, N.Y. *B.S., Lehman, 1977*
Nerenstone, Stacy Ruth Iowa City, Iowa *B.A., Brown, 1977*
Oppedisano, Carlyn Ann Roslyn Heights, N.Y. *B.A., Adelphi, 1977*
Orland, Steven M. Cherry Hill, N.J. *B.A., Princeton, 1977*
Ozick, Lisa A. Riverdale, N.Y. *B.A., City College (New York), 1977*
Palazzolo, Michael John New York, N.Y. *B.A., Columbia, 1976*
Park, William II
Patsos, Theodore John Canton, Mass. *B.A., Brown, 1977*
Pellicone, John Thomas Clinton, Conn. *B.A., Dartmouth, 1977*
Peress, Richard Eliot Jamaica, N.Y. *B.A., New York University, 1977*
Perofsky, Howard Jay Flushing, N.Y. *B.A., City College, 1977*
Petchler, Janet Caroline Hamden, Conn. *B.A., Vassar, 1976*
Raby, Khether Emile Great Neck, N.Y. *B.S., Muhlenberg, 1977*
Regan, Raymond Francis Edgewater, N.J. *B.A., Rutgers, 1977*
Richmond, Kenneth Herbert Providence, R.I. *B.A., Brown, 1971*
Rifkin, Terry Paul Yonkers, N.Y. *B.A., Yeshiva, 1977*
Roberts, James Michael Scarsdale, N.Y. *B.A., Amherst, 1977*
Rogers, David Michael East Rockaway, N.Y. *B.A., Harvard, 1977*
Rosenfield, Howard T. Newton Center, Mass. *B.A., Brandeis, 1968*
Rosenthal, Robert Bruce West Hartford, Conn. *B.S., Yale, 1976*
Ross, Richard Steven Long Island City, N.Y. *B.A., Columbia, 1977*
Rozmaryn, Leo Martin Forest Hills, N.Y. *B.A., Queens, 1977*
Rudolph, Michael Alan Beverly Hills, Calif. *B.S., Stanford, 1977*
Sabir, Rafiq New York, N.Y. *B.A., City College (New York), 1977*
Sax, Frederic Lee Rosedale, N.Y. *B.S., Yale, 1977*
Scantlebury, Velma Patricia Brooklyn, N.Y. *B.S., Long Island, 1977*
Seely, Ellen Wells New York, N.Y. *B.A., Brown, 1977*
Shah, Dipti V. Fresh Meadows, N.Y. *B.A., Barnard, 1977*
Shear, Michael Peter Yonkers, N.Y. *B.A., SUNY (Purchase), 1977*
Shookster, Linda Anne Rego Park, N.Y. *B.A., Princeton, 1977*
Siegel, Robert David Jersey City, N.J. *B.A., Lafayette, 1977*
Sisti, Michael Brian Tenafly, N.J. *B.S.E., Cooper Union, 1977*
Small, Peter Alan Easton, Conn. *B.A., Tufts, 1977*
Smithy, William Brian Brookline, Mass. *B.A., Columbia, 1977*
Sobelson, Gary Alan North Bellmore, N.Y. *B.A., Dartmouth, 1977*
Solomon, Barry Howard Dobbs Ferry, N.Y. *B.S., American (Rome), 1975*
Speert, Peter Klee Brookline, Mass. *B.A., Williams, 1966*
Stein, Neil Brooklyn, N.Y. *B.A., Columbia, 1977*
Stern, Fredric A. Rockville Centre, N.Y. *B.A., B.S., Tufts, 1977*
Stoler, Joan Marilyn Brookline, Mass. *B.S., Brandeis, 1977*
Stone, Gary Carl Riverdale, N.Y. *B.A., Harvard, 1977*
Strongin, Jonathan D. New York, N.Y. *M.A., Columbia, 1974*
Sulkow, Barbara Lynn *B.S., SUNY (Albany), 1974*
Teitelbaum, Joanne New York, N.Y. *B.A., Connecticut, 1968*
Valdes, Martin Hialeah, Fla. *B.A., Miami, 1977*
Vaughan, Luke Michael Plainview, N.Y. *B.A., Columbia, 1976*
Victoria II, Albert Charles New York, N.Y. *B.A., Columbia, 1976*
Voutsas, Andrea K. Bayside, N.Y. *B.A., Mount Holyoke, 1977*
Wagman, Robert David Ontario, Canada *B.A., Harvard, 1977*
Warren, Susan Enid New York, N.Y. *B.A., Yale, 1973*
Wasko, Margery Lynn Bronxville, N.Y. *B.A., Mount Holyoke, 1977*

Weidenbaum, Mark Waterford, Conn. *B.S., Connecticut, 1977*
Weinstein, Beth New York, N.Y. *B.A., Wesleyan, 1974*
Weinstock, Martin Arthur Bayside, N.Y. *B.A., Williams, 1977*
Weiss, Michael Jay Riverdale, N.Y. *B.Sc., Bar-Ilan, 1972*
Williams, John Vincent Brooklyn, N.Y. *B.S., City College, 1977*
Wilson, Scott Numo New York, N.Y. *B.A., Princeton, 1977*
Wiseman, Gloria Diana New York, N.Y. *B.S., City College, 1977*
Wollack, Jan Hackensack, N.J. *B.S., Yale, 1973*
Wood, Charles Macdonald Tenafly, N.J. *B.S., Denison, 1976*
Wu, Gloria New York, N.Y. *B.A., Radcliffe, 1975*
Yannopoulos, Aristomenis D. Garden City, N.Y. *B.A., Harvard, 1977*
Yepes, Martha Cecilia New York, N.Y. *B.A., Barnard, 1977*
Young, Grace May-En Fairlawn, N.J. *B.A., Radcliffe, 1977*
Zahl, Kenneth J. Bronx, N.Y. *B.A., New York University, 1977*
Zinberg, Joel Michael New York, N.Y. *B.A., Swarthmore, 1977*
Zinberg, Jonathan Brooklyn, N.Y. *B.S., Brooklyn, 1977*
Zollo, Kenneth Allen Farmingdale, N.Y. *B.S., SUNY (Stony Brook), 1977*

Student Roster: Class of 1982

Abrams, Elaine Janine Brooklyn, N.Y. *B.S., Princeton, 1978*
Absatz, Michael Glenn Plainview, N.Y. *B.E.S., Johns Hopkins, 1978*
Adler, Frederick William New York, N.Y. *B.S., Columbia, 1978*
Aldoroty, Robert Arthur Bayside, N.Y. *B.A., Pennsylvania, 1976; M.A., Columbia, 1978*
Almquist, Robert Earl Bergen, N.Y. *B.S., Yale, 1978*
Amchin, Jess David Farmingdale, N.Y. *B.A., Cornell, 1978*
Andrew, Susan Louise Easthampton, Mass. *Sc.B., Brown, 1976*
Aranoff, Jonathan Neil Brooklyn, N.Y. *B.A., Columbia, 1978*
Beekman, Karen Press Brooklyn, N.Y. *B.A., Barnard, 1978*
Bellin, Eran Yitzchak Brooklyn, N.Y. *B.A., Harvard, 1978*
Bernstein, Guy Thomas Short Hills, N.J. *B.A., Brown, 1978*
Bezier, Jeffrey Lee Peshtigo, Wis. *B.A., Princeton, 1978*
Birkenbach, Mark Philip Kildeer, Ill. *B.A., Harvard, 1978*
Blackwell, Thomas Keith Greenville, S.C. *B.S., Duke, 1978*
Boruchoff, Susan Elise Newton Centre, Mass. *B.A., Radcliffe, 1977*
Brauser, Steven Donald Woodbury, N.Y. *B.A., Harvard, 1978*
Brenner, Gail Monsey, N.Y. *B.S., City College, 1978*
Brigham, Steven Chase Toledo, Ohio *B.S., Massachusetts Institute of Technology, 1978*
Brooks, Robert Louis Sharpsburg, Md. *B.S., Massachusetts Institute of Technology, 1974; M.S., Maryland, 1976; Ph.D., 1978*
Brown, Florence M. Evanston, Ill. *B.A., Columbia, 1978*
Bryk, Eli New York, N.Y. *B.A., Columbia, 1978*
Buchness, Mary Ruth Catonsville, Md. *B.A., Harvard, 1978*
Burns, Elisa Eve Bethpage, N.Y. *B.A., Colgate, 1978*
Cammisa, Frank P. Waterbury, Conn. *B.S., Tufts, 1978*
Campbell, Susan Elizabeth New York, N.Y. *B.A., Barnard, 1975*
Cantor, Michael Cary Massapequa, N.Y. *B.A., Harvard, 1978*
Cherup, Lori Lyn Pittsburgh, Pa. *B.A., Princeton, 1976*
Chua, Streamson C. Kingston, N.Y. *B.A., Johns Hopkins, 1978*
Clair, Darren Francis New York, N.Y. *B.A., Princeton, 1976*
Cody, William Collins Mountain Lakes, N.J. *B.A., Dartmouth, 1978*
Cohen, Jeffrey Lewis Forest Hills, N.Y. *B.A., Johns Hopkins, 1978*
Dash, Greg I. Cedarhurst, N.Y. *B.A., Princeton, 1978*

del Alcazar, Carlos Oscar North Bergen, N.J. *B.A., Columbia, 1978*
Delfs, Richard Michael Tucson, Ariz. *B.A., Arizona, 1976*
Delvin, Michael James Bardonia, N.Y. *B.A., Princeton, 1978*
Derby, James Alan Schuylerville, N.Y. *B.S., SUNY (Albany), 1978*
Dermody, Terence Shawn Ithaca, N.Y. *B.S., Cornell, 1978*
Downey, Susan E. New York, N.Y. *B.A., Smith, 1978*
Doyle, Werner Karim Port Jefferson Station, N.Y. *B.S., SUNY (Stony Brook), 1978*
Durand, David Bradley Rochester, N.Y. *B.A., Dartmouth, 1978*
Easton, Jonathan New York, N.Y. *B.A., Columbia, 1978*
Endow, Curtis S. Stockton, Calif. *B.A., California (Berkeley), 1977*
Endrizzi, Donald Peter Brooklyn, N.Y. *B.A., Columbia, 1978*
Fabiano, Fredric Boston, Mass. *B.S., Boston, 1978*
Feinberg, Richard Ira Woodmere, N.Y. *B.A., Trinity, 1977*
Fiero, Thomas Patrick Brooklyn, N.Y. *B.A., Columbia, 1977*
Fletcher, Christopher Wallace Wellesley, Mass. *B.A., Wesleyan, 1978*
Formichella, Donna Jean Bridgeport, Conn. *B.S., Providence, 1978*
Frank, David Lawrence Meadowbrook, Pa. *B.A., Williams, 1978*
Gelbfish, Gary Alexander Brooklyn, N.Y. *B.S., Brooklyn, 1978*
Gilchrist, Ian Charles Chappaqua, N.Y. *B.A., Dartmouth, 1978*
Gomez, William New York, N.Y. *B.S., Polytechnic Institute of Brooklyn, N.Y., 1976*
Grant, Gail Patrice Charleston, S.C. *B.A., Yale, 1978*
Greenberg, Steven Marc Flushing, N.Y. *B.A., Harvard, 1978*
Gresalfi, Thomas John Lake Grove, N.Y. *B.S., SUNY (Stony Brook), 1978*
Griswold, Jonathan DeWitt Stratford, Conn. *B.S., M.S., Yale, 1978*
Harmon, Valerie Lorraine Philadelphia, Pa. *B.A., Brown, 1978*
Harrington, William Neelis Great Neck, N.Y. *B.A., Columbia, 1974*
Hart, Craig Parsippany, N.J. *B.A., Pennsylvania, 1973*
Honig, Peter K. Bellerose, N.Y. *B.A., Columbia, 1978*
Hutt, Douglas Allen Irvington, N.Y. *B.A., Columbia, 1978*
Jabs, Kathy Lee Bristol, Conn. *B.S., Trinity, 1978*
Jackness, Emily New York, N.Y. *B.A., Barnard, 1978*
Karasik, Pamela Ellen Old Westbury, N.Y. *B.A., Barnard, 1978*
Kates, Mandes Roger New Haven, Conn. *B.A., Princeton, 1974; Ph.D., Yale, 1978*
Kessler, Paul David New York, N.Y. *B.S., Pittsburgh, 1976*
King, Dennis K. Daytona Beach, Fla. *B.A., Middlebury, 1978*
Knoll, Charles L. Brooklyn, N.Y. *B.S., Brooklyn, 1978*
Krauss, Eugene Steven Old Westbury, N.Y. *B.S., Columbia, 1978*
Krug, Joseph Hoffmann Englewood, N.J. *B.A., Johns Hopkins, 1978*
Levens, David Jon Newton Centre, Mass. *B.S., Massachusetts Institute of Technology, 1978*
Levenson, Risa Catherine New York, N.Y. *B.A., Radcliffe, 1978*
Li, Suzanne C. Roslyn, N.Y. *B.S., Yale, 1978*
Licht, Jonathan Daniel Jackson Heights, N.Y. *B.S., SUNY (Stony Brook), 1978*
Lobel, Leslie Israel New York, N.Y. *B.A., Columbia, 1978*
Low, Julie Ann Belmont, Mass. *B.A., Rochester, 1975*
Lustbader, Ian Jay New York, N.Y. *B.S., City College, 1978*
Lynn, Richard Brian Great Neck, N.Y. *B.A., Columbia, 1978*
McCormick, Paul Christian Rockville, Md. *B.A., Columbia, 1978*
Margolis, Steven Fred Rego Park, N.Y. *B.A., New York University, 1974*
Markowitz, John New York, N.Y. *B.A., Columbia, 1976; M.A., 1978*
Martin, Steven Carey Plainview, N.Y. *B.A., Harvard, 1978*
Marzuk, Peter Michael New York, N.Y. *Sc.B., Brown, 1978*
Mastropolo, Rosalie Mary Eastchester, N.Y. *B.S.N., Rochester, 1976*
Mazzocchi, Annmarie Bronx, N.Y. *B.S., Manhattan, 1978*

Mehalek, Karen Edith Huntington Station, N.Y. *B.S., Cornell, 1978*
Mellstrom, Mark Stanley North Mankato, Minn. *B.A., Carleton, 1978*
Mercurio, Mark Randolph Ridgefield, Conn. *B.A., Princeton, 1978*
Mirski, Anna Marie Brooklyn, N.Y. *B.S., St. John's, 1978*
Mitchell, Alfred Ernest Staten Island, N.Y. *B.A., Lafayette, 1978*
Moffat, Gertrude Seidel Cold Spring Harbor, N.Y. *B.A., Brown, 1977*
Monasky, Mark Stephen Binghamton, N.Y. *B.A., SUNY (Potsdam), 1978*
Moscona, Anne Chicago, Ill. *B.A., Radcliffe, 1978*
Muller, Adrienne Louise Bronx, N.Y. *B.A., Brown, 1978*
Norton, Janet E. Philadelphia, Pa. *B.A., Pennsylvania, 1978*
Nussbaum, Monte Jay Flushing, N.Y. *B.S., Columbia, 1978*
Oesterling, Joseph Edwin Greensburg, Ind. *B.A., Columbia, 1978*
Olson, Stephen Eric Cooperstown, N.Y. *B.A., Hamilton, 1978*
Paul, Edward Mark Hicksville, N.Y. *B.A., Harvard, 1978*
Pennoyer, Marguerite Anne Portland, Maine *B.A., Smith, 1978*
Perez, Wilfredo De La C. Miami, Fla. *B.A., Harvard, 1978*
Pfeffer, Deborah Lynn New York, N.Y. *B.A., Barnard, 1978*
Philips, Mark Reid Scarsdale, N.Y. *B.A., Harvard, 1978*
Plotycia, Steven Michael Eggertsville, N.Y. *B.S., SUNY (Buffalo), 1978*
Porder, Joseph Bernard New York, N.Y. *B.A., Bennington, 1978*
Price, Helen L. Summit, N.J. *B.S., Yale, 1978*
Quarmby, Robert Altamont, N.Y. *B.S., SUNY (Stony Brook), 1974; M.S., Rensselaer Polytechnic Institute, 1978*
Quartararo, Christopher Huntington, N.Y. *B.A., Columbia, 1978*
Rini, Frank John New York, N.Y. *B.A., New York University, 1974; M.A., Columbia, 1976; M.Phil., 1977; Ph.D., 1978*
Robbins, Peter Howard Fairlawn, N.J. *B.A., Hamilton, 1978*
Robbins, Philip Alan Great Neck, N.Y. *B.S., Massachusetts Institute of Technology, 1978*
Rodriguez, Jaime Brooklyn, N.Y. *B.A., Columbia, 1978*
Rodriguez, Rolando Francisco Weehawken, N.J. *B.A., Columbia, 1978*
Rosenblatt, Marc A. New York, N.Y. *B.A., Harvard, 1978*
Rosenzweig, Seth Edward Freeport, N.Y. *B.S., Yale, 1978*
Rottman, Jeffrey Nathan Berkeley, Calif. *B.A., Princeton, 1976*
Ruzal, Carrie Brenda Brooklyn, N.Y. *B.A., Princeton, 1978*
Salamone, Ronald Jerry East Brunswick, N.J. *B.S., Stanford, 1977*
Sanchez-Lluberas, Jorge A. Santurce, Puerto Rico *B.S., University of Puerto Rico, 1978*
Schlaff, Anthony Lewis New York, N.Y. *B.A., Yale, 1978*
Schneider, Peter Andrew Hamburg, N.Y. *B.A., Amherst, 1977*
Schulder, Michael Brooklyn, N.Y. *B.A., Columbia, 1978*
Sealfon, Stuart C. Neponsit, N.Y. *B.A., Princeton, 1978*
Sehgal, Evan David Chevy Chase, Md. *B.A., Harvard, 1978*
Shaffer, David Great Neck, N.Y. *B.A., Yale, 1978*
Shaffer, Nathan New York, N.Y. *B.A., Yale, 1975*
Sharp, Barbara Lea San Francisco, Calif. *B.A., Yale, 1976*
Sheinbaum, Roy Jonathan Woodmere, N.Y. *B.Sc., McGill, 1978*
Simkowitz, Philip New York, N.Y. *B.S., Beloit, 1975*
Sklar, Jeffrey Alan Laurelton, N.Y. *B.S., SUNY (Stony Brook), 1978*
Skowron, Gail East Northport, N.Y. *B.S., Muhlenberg, 1978*
Smith, Andre Leo New York, N.Y. *B.A., Williams, 1978*
Smith, Mary Camden, N.Y. *B.S., Houghton, 1978*
Stevenson, Ellen Marie New York, N.Y. *B.A., Barnard, 1977*
Sullivan, John Keane New York, N.Y. *B.A., Holy Cross, 1969; J.D., Fordham, 1972*
Sultan, Mark Brooklyn, N.Y. *B.A., Brandeis, 1978*

Suser, Ezra Saul Hastings-on-Hudson, N.Y. *B.A., Columbia, 1974*
Tong, Dominic Jun Fai Honolulu, Hawaii *B.S., Hawaii (Monoa), 1978*
Usatine, Richard Philip Nanuet, N.Y. *B.A., Williams, 1978*
Veenema, Kenneth Roy Glenrock, N.J. *B.S., Cornell, 1977*
Vita, Joseph Andrew Katonah, N.Y. *B.S., Yale, 1978*
Wasserman, Hal Stuart Springfield, N.J. *B.A., Johns Hopkins, 1978*
Wellisz, Tadeusz Zbigniew New York, N.Y. *B.A., Chicago, 1977*
Whelan, Richard Lawrence Franklin Square, N.Y. *B.S., Fordham, 1978*
Wolff, David Marc New York, N.Y. *B.S., SUNY (Albany), 1977*
Wolfson, Steven Jay Valley Stream, N.Y. *B.S., Yale, 1978*
Yorke, Eric Robert Brooklyn, N.Y. *B.S., SUNY (Stony Brook), 1978*
Zeralsky, Sandra Joan Pearl River, N.Y. *B.A., SUNY (Stony Brook), 1978*

Student Roster: Class of 1983

Alonso, Jose Jr. Astoria, N.Y. *B.A., Columbia, 1979*
Andersen, Rolf Leon Suffern, N.Y. *B.S., Harvard, 1979*
Arliss, Jeffrey James Locust, N.J. *B.S., Vermont, 1978*
Bar, Michael Henry New York, N.Y. *B.A., Johns Hopkins, 1979*
Baran, Syma Deborah Levittown, N.Y. *B.A., Barnard, 1979*
Bass, Allyson Brackett Oakland, Calif. *B.A., California (Berkeley), 1975*
Bauer, R. David Elmhurst, N.Y. *B.A., Columbia, 1979*
Beck, Marc Lloyd New Hyde Park, N.Y. *B.A., Clark, 1979*
Ben-Zvi, Jeffrey S. Brooklyn, N.Y. *B.S., Brooklyn, 1979*
Black, Alexander Charlton Wellesley, Mass. *B.S., Harvard, 1979*
Bobella, Stephen Kurt Hackensack, N.J. *B.A., Drew, 1979*
Bonner, Matthew Kip Georgetown, Conn. *B.A., Cornell, 1979*
Boos, Stephen Charles Huntington Sta., N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Breidbart, Scott Eric Scarsdale, N.Y. *B.A., Yale, 1976*
Brill, David Alan New York, N.Y. *B.A., Princeton, 1979*
Brungraber, Margaret R. Lewisburg, Pa. *B.A., Princeton, 1979*
Bush, James William Cherry Hill, N.J. *B.A., Rutgers, 1979*
Cahill, Peter duPont Philadelphia, Pa. *B.A., Pennsylvania, 1979*
Camacho, Victor Emanuel Bronx, N.Y. *B.S., Columbia, 1979*
Camerino, Vicki Jean Larchmont, N.Y. *B.A., Dartmouth, 1978*
Carpenter, Richard Owen Cedarhurst, N.Y. *B.S., Duke, 1979*
Caselli, Richard John Bayside, N.Y. *B.A., Columbia, 1979*
Chalfin, Laura B. New York, N.Y. *B.A., SUNY (Stony Brook), 1970*
Chen, William Kuang-Yu New York, N.Y. *B.A., Columbia, 1978*
Christopher, Kenneth Bronx, N.Y. *B.A., Pennsylvania, 1978*
Davidson, Peter Killip Rochester, N.Y. *B.A., Haverford, 1977*
Davitz, Michael Andrew New York, N.Y. *B.A., Yale, 1978*
Desser, Terry Susan Beechhurst, N.Y. *B.A., Princeton, 1979*
Dillon, John Joseph Yorktown Hts., N.Y. *B.S., Massachusetts Institute of Technology, 1978*
Donnenberg, Michael Seth Levittown, N.Y. *B.S., SUNY (Albany), 1979*
Duralde, Xavier A. East Point, Ga. *B.A., Harvard, 1979*
Dushay, Kevin Maier Fayetteville, N.Y. *B.A., Brown, 1979*
Eaton, Bradford Hunter Pelham, N.Y. *B.A., Dartmouth, 1979*
Erly, William Kenneth Short Hills, N.J. *B.A., Haverford, 1978*
Eskenazi, Loren Beth New York, N.Y. *B.A., Pennsylvania, 1978*
Feind, Carl Robert Alpine, N.J. *B.S., Antioch, 1979*
Felix, Alan David New Hyde Park, N.Y. *B.A., Haverford, 1979*
Fiorito, Joseph John New York, N.Y. *B.A., Columbia, 1979*

Fisher, Margaret Elizabeth Haddonfield, N.J. *B.A., Princeton, 1979*
Florakis, George James Yonkers, N.Y. *B.A., Columbia, 1979*
Freilich, David Ira Brooklyn, N.Y. *Brooklyn College*
Friedman, David Paul Brooklyn, N.Y. *B.A., Columbia, 1979*
Gaines, Alan David Randolph, Mass. *B.S., Massachusetts Institute of Technology, 1979*
Garbowit, David Labe Pittsfield, Mass. *B.S., Union, 1979*
Genecin, Paul Baltimore, Md. *B.A., Princeton, 1977*
Glatt, Aaron Eli Brooklyn, N.Y. *B.A., Yeshiva, 1979*
Gliedman, Paul R. Wallkill, N.Y. *B.S., Manhattan, 1979*
Goldberg, Neal Benjamin Hartsdale, N.Y. *B.A., Johns Hopkins, 1979*
Goldman, Myla P. Bronx, N.Y. *B.A., Pennsylvania, 1979*
Goldschmidt, Howard Zvi Flushing, N.Y. *B.A., Columbia, 1979*
Goldstein, Michael D. Smithtown, N.Y. *B.S., SUNY (Stony Brook), 1979*
Gomez, Yvonne Brooklyn, N.Y. *B.A., Princeton, 1979*
Gonzalez, Christopher Lewis Claremont, Calif. *B.A., Pitzer, 1979*
Gonzalez, Victoria Mary Claremont, Calif. *B.A., California State (San Francisco), 1979*
Green, Nancy Sue Wabon, Mass. *B.S., Tufts, 1979*
Gutowski, Teddy Forest Hills, N.Y. *B.A., Queens, 1979*
Hall, Walter Allan Falls Church, Va. *B.A., Columbia, 1979*
Hanau, Lawrence Huto Bayside, N.Y. *B.A., Columbia, 1979*
Hawke, Mary Wetherill Southampton, N.Y. *B.A., Chicago, 1976*
Hirschfield, Steven I. New York, N.Y. *B.A., Columbia, 1972*
Ingram, David Lloyd Somerset, N.J. *B.A., Columbia, 1979*
Joffe, Mark D. Cherry Hill, N.J. *B.A., Princeton, 1978*
Johnston, Maria Milagros Bergenfield, N.J. *B.A., Barnard, 1979*
Jones, Leon D. Rome, N.Y. *B.A., Dartmouth, 1979*
Kalb, Thomas Heller Palm Beach, Fla. *B.A., Princeton, 1979*
Kamer, Russell Scott New Rochelle, N.Y. *B.A., Williams, 1979*
Kastelman, James Steven Cranford, N.J. *B.S., Princeton, 1979*
Keller, Wendy A. New York, N.Y. *B.A., Barnard, 1975*
Klapper, Robert C. Far Rockaway, N.Y. *B.A., Columbia, 1979*
Koehler, Susan Ellen Clarence, N.Y. *B.A., Mt. Holyoke, 1979*
Konecky, Alan Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Kriger, Alberto Isaac Rio Piedras, P.R. *B.A., Brandeis, 1979*
Landry, Donald William Cambridge, Mass. *B.S., Lafayette, 1975*
Landzberg, Joel Serge Whitestone, N.Y. *B.A., Columbia, 1979*
Lederman, Seth Michael New York, N.Y. *B.A., Princeton, 1979*
Letsou, George Vasilios Lowell, Mass. *B.A., Harvard, 1979*
Linfield, Louis S. II San Francisco, Calif. *B.A., Harvard, 1977*
Loomis, Karen Jay White Plains, N.Y. *B.S., Yale, 1977*
Lopez, Rafael Roberto New York, N.Y. *B.A., Columbia, 1979*
Lowy, Israel Forest Hills, N.Y. *B.A., Princeton, 1977*
Luppescu, Neal Edwin Roslyn, N.Y. *B.A., Dartmouth, 1979*
Lustick, Martin Ross Watertown, N.Y. *B.A., Cornell, 1978*
Lytton, William Winzer Scarsdale, N.Y. *B.A., Harvard, 1978*
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Macfarlane, Michael Thomas New York, N.Y. *B.A., Long Island (C.W. Post), 1975*
Mackey, Steven Lee South Columbus, Ohio *B.A., Columbia, 1976*
Maloney, William Joseph Warren, N.Y. *B.A., Stanford, 1979*
Mandel, Michael New York, N.Y. *B.A., Columbia, 1979*
Manley, John C. North Port, N.Y. *B.S., California Institute of Technology, 1977*
Matathias, Daniel J. Long Island City, N.Y. *B.A., Columbia, 1979*
Matos, Sergio E. New York, N.Y. *B.S., City College, 1979*
Melfi, Robert Joseph Wood-Ridge, N.J. *B.S., Creighton, 1979*

Munro, Virginia Schaefer New York, N.Y. *B.S., Columbia, 1979*
Neuberg, Gerald Walter Tenafly, N.J. *B.A., Princeton, 1979*
Okun, Alexander Lawrence New York, N.Y. *B.S., Yale, 1979*
Ostrow, Steven Mark Baldwin, N.Y. *B.A., Brown, 1979*
Paek, In-Bok Flushing, N.Y. *B.A., Barnard, 1979*
Pastor, Patricia Camuto Rochester, N.Y. *B.A., Hofstra, 1976*
Pearl, Michael Lawrence Southfield, Mich. *B.S., Michigan, 1979*
Perkins, Archibald Simon Williamstown, Mass. *B.A., Williams, 1979*
Perlmutter, Jeffrey Alan Huntington, N.Y. *B.S., Yale, 1979*
Peterson, Louisa Thoron New York, N.Y. *B.A., Colorado, 1968*
Peterson, Mark William Fort Collins, Colorado *B.S., Colorado State, 1979*
Pierson, Richard Norris III Englewood, N.J. *B.A., Princeton, 1978*
Pollak, Emil Martin Jr. Old Tappan, N.J. *B.A., Dartmouth, 1979*
Pollak, Jeffrey Scott New York, N.Y. *B.A., Columbia, 1979*
Quinn, Thomas Joseph Wantagh, N.Y. *B.S., SUNY (Stony Brook), 1979*
Rampil, Ira Jay Flushing, N.Y. *B.E.S., SUNY (Stony Brook), 1975*
Randolph, Paula Ann Bronx, N.Y. *B.S., Harvard, 1979*
Readling, Maris Anne Oswego, N.Y. *B.A., Bryn Mawr, 1979*
Retikas, Anthony Demetrios Akron, Ohio *B.A., Johns Hopkins, 1979*
Rice, Louis Bernard Garden City, N.Y. *B.A., Harvard, 1977*
Rich, Thomas Jonathan Flourtown, Pa. *B.S., Bucknell, 1979*
Ring, Wendy Susan Coral Gables, Fla. *B.S., Yale, 1979*
Roberts, William Gary Purchase, N.Y. *B.A., Harvard, 1979*
Rochester, Carolyn Lee Charlottesville, Va. *B.A., Smith, 1979*
Rosenthal, Jonathan Harry New York, N.Y. *B.A., Harvard, 1973*
Rovit, Adam John Scarsdale, N.Y. *B.A., Michigan, 1979*
Sacks, Andrew Jay New York, N.Y. *B.A., New College, 1975*
Sacks, Evan Hilary Flushing, N.Y. *B.A., Brown, 1979*
Saver, Barry Gordon Cambridge, Mass. *B.S., Yale, 1976*
Schlesinger, Gail Michele Roslyn, N.Y. *B.A., Pennsylvania, 1978*
Schoifet, Scott David Somerset, N.J. *B.A., Cornell, 1979*
Shapiro, Matthew Scott Hewlett, N.Y. *B.A., Cornell, 1979*
Simpson, Joseph Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Smires, Harvey Edward Bellerose, N.Y. *B.A., Harvard, 1979*
Smith, Ann Elizabeth Northport, N.Y. *B.A., Washington, 1979*
Smith, Judith Wilson Greenwich, Conn. *B.A., Princeton, 1979*
Spriegel, John Roberts Evanston, Ill. *B.S.E., Princeton, 1979*
Starin, Lawrence Robert Spring Valley, N.Y. *Sc.B., Brown, 1979*
Tannenbaum, Gary Alan Brooklyn, N.Y. *B.A., Dartmouth, 1979*
Vagelos, Randall Herodotus Watchung, N.J. *B.A., Harvard, 1979*
Van de Wiele, Barbara M. Alpine, N.J. *B.A., Smith, 1977*
Wang, Paul Johnson Indianapolis, Ind. *B.A., Harvard, 1979*
Wang, Timothy Cragin St. Louis, Mo. *B.A., Williams, 1979*
Wasserman, Marcia Sue Syosset, N.Y. *B.S., Cornell, 1973*
Weinberger, Michael Laurence Ardsley, N.Y. *B.A., Clark, 1979*
Weinstein, Lee Scott Woodmere, N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Weissman, Jane Lisa New York, N.Y. *B.A., Yale, 1977*
Whitley, Barbara Ellen Queens Village, N.Y. *B.A., Syracuse, 1971*
Widom, Barbara Santa Cruz, Calif. *B.A., Cornell, 1979*
Wilkens, James Burton Toledo, Ohio *B.S., Ohio State, 1979*
Wilner, Philip Jonathan Jamaica Estates, N.Y. *B.A., Columbia, 1979*
Wimpfheimer, Miriam Jane New York, N.Y. *B.A., Yale, 1975*
Winter, Eric Herbert New York, N.Y. *B.A., Harvard, 1979*
Wissler, Richard Norris Canandaigua, N.Y. *B.A., Hamilton, 1974*

Yolowitz, Greg Alan Spring Valley, N.Y. *B.A., Wesleyan, 1979*
Yu, Leonard Tobey New York, N.Y. *B.A., Amherst, 1977*
Zigelman, Charles Z. Woodmere, N.Y. *B.A., Queens, 1979*

Student Roster: Class of 1984

Adkins, Elijah Stanton III Salisbury, Md. *B.A., Princeton, 1980*
Alland, David New York, N.Y. *B.A., Columbia, 1980*
Alonso, Barbara Ann New York, N.Y. *B.A., Barnard, 1979*
Arato, Michael Plainview, N.Y. *B.S., Union, 1980*
Ashmead, Duffield Philadelphia, Pa. *B.A., Princeton, 1980*
Baez, Ana Luisa New York, N.Y. *B.S., City College, 1980*
Bannister, Kyra Heather Georgetown, Conn. *B.A., Vermont, 1980*
Barasch, Jonathan Matthew New York, N.Y. *B.A., Dartmouth, 1980*
Belisle, James Thompson Babylon, N.Y. *B.S., Cornell, 1979*
Bell, Robin Ellen Ardsley, N.Y. *B.A., Brown, 1975*
Berkower, Alan Stewart Bronx, N.Y. *B.A., Middlebury, 1974*
Booker, Gail Michele Jamaica, N.Y. *B.A., Princeton, 1980*
Boschi, Alessandro Sebastian Port Chester, N.Y. *B.A., Columbia, 1980*
Brem, Rachel Frydman Brookline, Mass. *B.A., Brandeis, 1979*
Brieff, David Ben Melville, N.Y. *B.A., SUNY (Stony Brook), 1980*
Brittis, Mary Ellen Yonkers, N.Y. *B.S., Columbia, 1980*
Brown, Michael Carlvan Yorktown Heights, N.Y. *B.A., Dartmouth, 1979*
Cardenosa, Gilda New York, N.Y. *B.S., Marymount, 1979*
Chak, Amitabh Morgantown, W. Va. *B.A., Yale, 1978*
Chan, Stephen Bronx, N.Y. *B.A., Harvard, 1979*
Chietero, Michael Plainview, N.Y. *B.S., Fordham, 1980*
Clain, Michael Russell Great Neck, N.Y. *B.A., Brown, 1980*
Coburn, Kenneth Doyle West Hempstead, N.Y. *B.A., Brown, 1980*
Cohen, Sally Eisenberg Ridgewood, N.J. *B.A., Goucher, 1964*
Constantine, Sandra Mequon, Wis. *B.A., Harvard, 1980*
Di Franco, Matthew Joaquin Santa Cruz, Calif. *B.A., California (Santa Cruz), 1979*
Draga, Aspasia E. Malba, N.Y. *B.A., Barnard, 1980*
Egnor, Michael Robert Catskill, N.Y. *B.A., Columbia, 1980*
Fallon, Regis Francis Pittsburgh, Pa. *B.A., Harvard, 1980*
Fayter, Judith Ann Staten Island, N.Y. *B.S., Pace, 1978*
Fithian, Donald Coburn Bridgeton, N.J. *B.A., Dartmouth, 1980*
Florin, Cynthia Ann New York, N.Y. *B.S., Grinnell, 1975*
Ford, Jean Guillaume Long Island City, N.Y. *B.A., Columbia, 1978*
Freeman, Phillip Sanford New York, N.Y. *B.A., Princeton, 1975*
Gallay, Brian James White Plains, N.Y. *B.A., Columbia, 1980*
Gewirtz, George Robert Bronx, N.Y. *B.A., Columbia, 1979*
Goldberg, Mark Paul Chicago, Ill. *B.A., Harvard, 1980*
Goldstein, Jeffrey Alan Southfield, Mich. *B.A., Harvard, 1980*
Gorton, Christopher P. Hollis, N.H. *B.A., Dartmouth, 1980*
Goyal, Alok New York, N.Y. *B.S., Columbia, 1980*
Graff, Wayne Brian Merrick, N.Y. *B.S., Adelphi, 1980*
Graham, Jeffrey Scott Summit, N.J. *B.A., Williams, 1980*
Greenbaum, Linda Ellen New York City, N.Y. *B.A., Harvard, 1980*
Guthrie, Ellen Hobson Hilton Head Island, S.C. *B.A., Colorado, 1980*
Haspel, Kenneth Lewis West Hartford, Conn. *B.A., Pennsylvania, 1980*
Hibbard, Claire Alexandra New York, N.Y. *B.A., Barnard, 1979*
Hsu, Ho-Wen Timonium, Md. *B.A., Princeton, 1979*
Hyll, Marsha Karin Green Brook, N.J. *B.A., Princeton, 1975*

Ivey, Louis Albert Silver Spring, Md. *B.A., Princeton, 1980*
Jackson, Byron A. Shreveport, La. *B.A., New York University, 1980*
Jeevanandam, Valluvan M. New Milford, N.J. *B.A., Columbia, 1980*
Johnson, Gregory Kent Chestertown, N.Y. *B.A., Dartmouth, 1979*
Johnston, Peter Shivers Brooklyn, N.Y. *B.A., Cornell, 1969*
Jules, Kethy Marie Elmhurst, N.Y. *B.S., Marymount, 1980*
Kao, Peter Nicholas New York, N.Y. *B.A., Harvard, 1979*
Karlin, Scott Marc Greenlawn, N.Y. *B.A., Wesleyan, 1980*
Kaye, Katherine Staten Island, N.Y. *B.A., Princeton, 1980*
Kazim, Michael Riverdale, N.Y. *B.A., Columbia, 1980*
Kellogg, Collins Frederick Croghan, N.Y. *B.A., Hamilton, 1977*
Kim, Anthony Hyoung Queens, N.Y. *B.A., Yale, 1980*
Kim, Kami Albany, N.Y. *B.A., Harvard, 1980*
Kimball, Robert Owen Geneva, N.Y. *B.S., Cornell, 1979*
Krongrad, Arnon New York, N.Y. *B.A., Columbia, 1980*
Ku, Andrew Bergenfield, N.J. *B.A., Harvard, 1980*
Lang, Thomas Philip Rochester, N.Y. *B.A., Harvard, 1980*
La Scala, Carlo Paul Port Jefferson, N.Y. *B.S., SUNY (Stony Brook), 1980*
Lattimer, Douglas Gary New York, N.Y. *B.A., Columbia, 1975*
Leibenhaut, Mark Harris Oceanside, N.Y. *B.A., Princeton, 1980*
Levin, Neil Chevy Chase, Md. *B.S.E.S., Tufts, 1980*
Lewis, Allison Elizabeth Menlo Park, Calif. *B.S.E., Princeton, 1980*
Liberman, Laura Newton, Mass. *B.A., Harvard, 1980*
Lombardo, Gregory Thomas New York, N.Y. *B.A., Columbia, 1968*
Love, Karen Anita Queens Village, N.Y. *B.A., Cornell, 1980*
Luyando, Yvonne New York, N.Y. *B.A., Fordham, 1980*
McDonagh, Kevin T. Bellerose, N.Y. *B.A., Columbia, 1980*
Ma, Averil I. Thornwood, N.Y. *B.A., Harvard, 1980*
Magnes, Jeffrey New York, N.Y. *B.S., Yale, 1975*
Mahon, John Henry Huntington, N.Y. *B.S., Notre Dame, 1980*
Markowitz, Arlene Helen Scarsdale, N.Y. *B.A., Wellesley, 1980*
Mathews, Donald Marshall Schenectady, N.Y. *B.A., Harvard, 1980*
Miller, Steven Zane Rego Park, N.Y. *B.A., Columbia, 1980*
Milrod, Barbara Louise New York, N.Y. *B.S., Yale, 1979*
Modic, Frank Edward Scotia, N.Y. *B.S., Cornell, 1980*
Moss, William John Demarest, N.J. *B.A., Wesleyan, 1980*
Mulvey, Kevin Patrick San Francisco, Calif. *B.S., San Francisco, 1980*
Neustein, Steven Mark West Orange, N.J. *B.S., Massachusetts Institute of Technology, 1980*
Nimkin, Katherine New York, N.Y. *B.A., Cornell, 1978*
Nordli, Douglas Ray Melville, N.Y. *B.S., Haverford, 1980*
Odrich, Marc Geoffrey Riverdale, N.Y. *B.A., Columbia, 1980*
O'Keeffe, Richard Michael, Jr. Weston, Mass. *B.A., Dartmouth, 1980*
Olsen, Janet Louise Queens Village, N.Y. *B.A., Vassar, 1978*
Olson, Eric Jon Chadds Ford, Pa. *B.A., Princeton, 1980*
Oquendo, Maria Antonia Guaynabo, Puerto Rico *B.S., B.A., Tufts, 1980*
Palma, James New York, N.Y. *City College of New York, 1980*
Pawlowski, Ann Margaret Lunnfield, Mass. *B.A., Harvard, 1980*
Peng, Benjamin C. H. Kew Gardens, N.Y. *B.A., Rochester, 1980*
Pero, Robert Thomas Hyde Park, Mass. *B.A., Harvard, 1980*
Proano, Maritza New York, N.Y. *B.A., Smith, 1980*
Rabbani, LeRoy E. New York, N.Y. *B.A., Harvard, 1980*
Rautenberg, Mark Alan Ithaca, N.Y. *B.A., Cornell, 1980*
Raymond, Elizabeth Gray Philadelphia, Pa. *B.A., Swarthmore, 1980*
Reilly, Philip Joseph New York, N.Y. *B.S., SUNY (Buffalo), 1976*
Reimold, Andreas Michael Dallas, Tex. *B.A., Harvard, 1980*

Rennert, Douglas Andrew New York, N.Y. *B.S., Haverford, 1980*
Roberts, James Wayne Jamaica, N.Y. *B.A., Harvard, 1980*
Rodrigues, Beatriz A. Scarsdale, N.Y. *B.A., Barnard, 1980*
Romano, Thomas Jerome Camillus, N.Y. *B.S., SUNY (Buffalo), 1980*
Rottkamp, John Robert Commack, N.Y. *B.S., SUNY (Stony Brook), 1980*
Ruiz, Frank Westbury, N.Y. *B.S., Yale, 1980*
Saladini, Vincent Rocco, Jr. New York, N.Y. *B.A., Columbia, 1980*
Santos, Annabelle Villatuya Hollis, N.Y. *B.A., Barnard, 1980*
Schmiedeberg, Phyllis N. Babylon, N.Y. *B.A., Johns Hopkins, 1980*
Schoen, Robert Edward Beverly Hills, Calif. *B.A., Columbia, 1979*
Schoenberg, Norman Island Park, N.Y. *B.A., Hofstra, 1980*
Schriger, David Lawrence Englewood, N.J. *B.A., Amherst, 1980*
Schwartzbach, Cary C. Flushing, N.Y. *B.A., Columbia, 1980*
Scuderi, Donna Maria Jamaica Estates, N.Y. *B.S., Adelphi, 1980*
Seymour, Neal Edward Oakdale, N.Y. *B.A., Columbia, 1980*
Shaw, Andrey Shin-Yee New York, N.Y. *B.A., Columbia, 1979*
Sheffield, Mary Katherine Longmeadow, Mass. *B.S., Massachusetts Institute of Technology, 1980*
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Somlo, Stefan Bronx, N.Y. *B.A., Harvard, 1980*
Sorensen, Mark Francis Rockville Centre, N.Y. *B.A., Duke, 1980*
Speirs, Robert Thomas Port Washington, N.Y. *B.A., Columbia, 1980*
Stegall, Mark Dale Crosbyton, Tex. *B.A., Harvard, 1979*
Stork, Philip Jacques Stewart Englewood, N.J. *B.S., Harvard, 1977*
Strachan, Alexander Jamaica, N.Y. *B.A., Fordham, 1980*
Tamargo, Rafael Jesus Condado, Puerto Rico *B.A., Princeton, 1980*
Teichman, Faye Brooklyn, N.Y. *B.S., Brooklyn, 1980*
Tilley, Robert John Tacoma, Wash. *B.S., Washington, 1980*
Torres, Ramon Antonio Bronx, N.Y. *B.A., New York University, 1980*
Turey, Maureen New York, N.Y. *B.A., Barnard, 1976*
Weber, Pamela Ann Buffalo, N.Y. *B.S., McGill, 1980*
Westermann, Robert Bayless West Hartford, Conn. *B.A., Harvard, 1980*
Westrich, David Joshua New York, N.Y. *B.A., Pennsylvania, 1980*
Whitehurst, James Howell Atlanta, Ga. *B.S., Vanderbilt, 1979*
Whitley, Markus Andrew Bowie, Md. *B.S., Massachusetts Institute of Technology, 1980*
Whitlock, Mary Elizabeth Tenafly, N.J. *B.A., Smith, 1980*
Wiedermann, Joseph Gad Englewood, N.J. *B.A., Harvard, 1979*
Winston, Julia Lynn Oakland, N.J. *B.S., Bucknell, 1979*
Wirth, Robert Lockridge Palo Alto, Calif. *B.S.E., Michigan, 1974*
Witham, Rebecca Sue Needham, Mass. *B.S., Yale, 1979*
Wong, Shing-Chiu East Elmhurst, N.Y. *B.A., Columbia, 1980*
Wong, Ting Hung New York, N.Y. *B.S., City College, 1980*
Yancopoulos, George Damis Elmhurst, N.Y. *B.A., Columbia, 1980*
Yen, Catherine Eleanor Honolulu, Hawaii *B.S., Hawaii, 1979*
Yuen, Jeffrey C. Brooklyn, N.Y. *B.A., Cornell, 1977*

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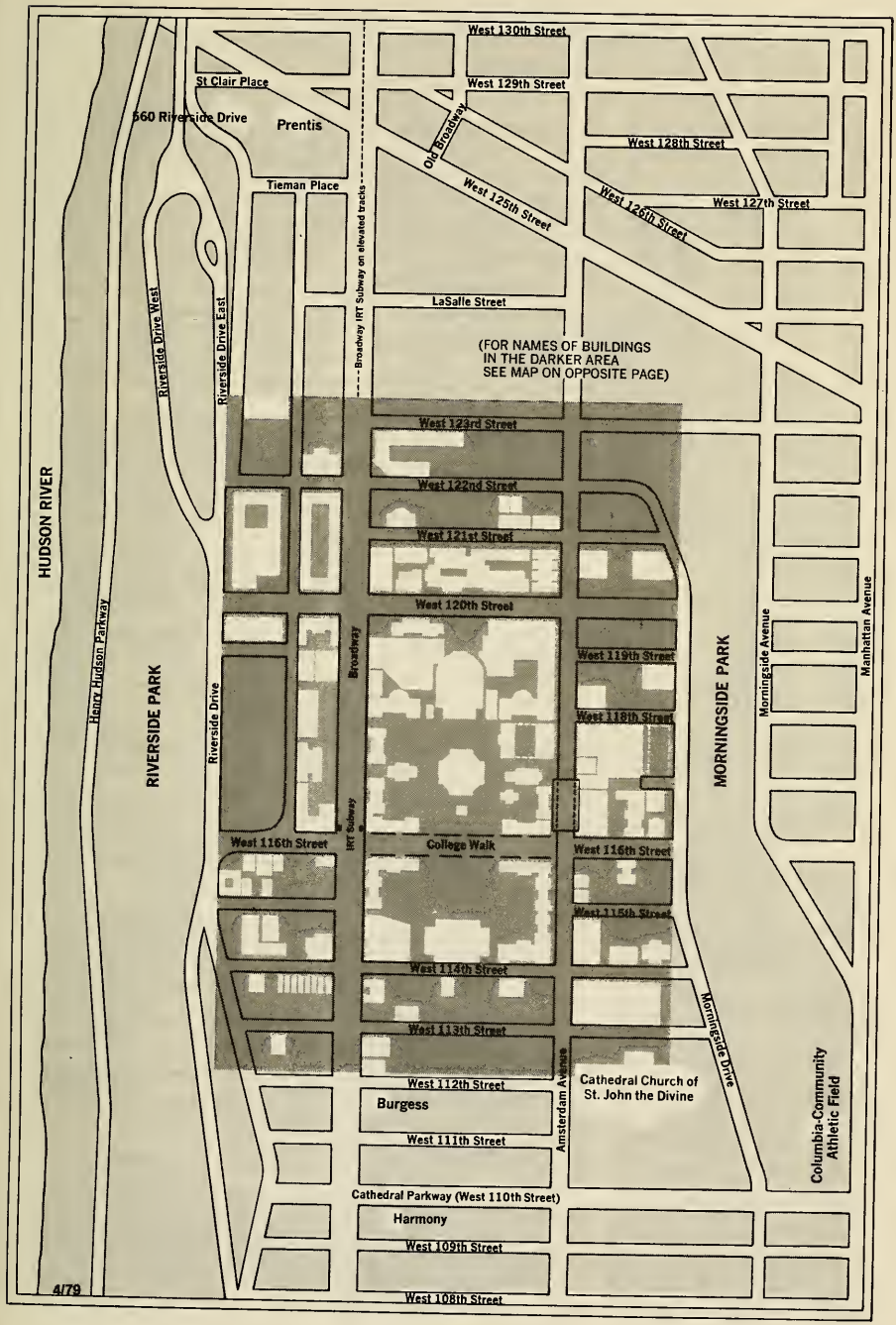
The Morningside Heights Area of New York City



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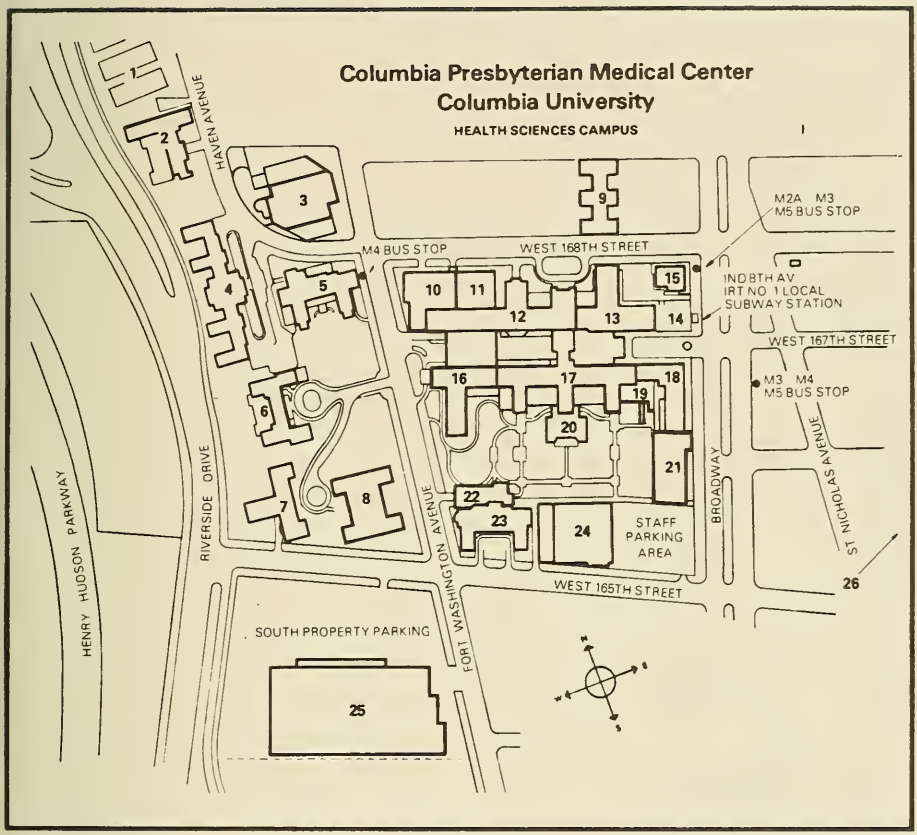

11 Alumni Auditorium
3 Augustus Long Library
8 Dana W. Atchley Pavilion
18 The Babies Hospital
21 Babies Hospital Research, Teaching, and Office Addition
2 Bard Hall Medical Student Residence
1 Bard Haven Towers
10 William Black Medical Research Building
3 Cancer Center/Institute of Cancer Research
24 Central Service Building
12 College of Physicians and Surgeons
26 Center for Community Health Systems
13 School of Dental and Oral Surgery
9 Georgian Nurses Residence
22 Edward S. Harkness Eye Institute
23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
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2/12 International Institute for the Study of Human Reproduction
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6 School of Nursing
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Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
15 School of Public Health
19 Radiotherapy Center
13 Vanderbilt Clinic
14 Vanderbilt Clinic Addition

The Faculty of Medicine
COLLEGE OF PHYSICIANS
& SURGEONS

Columbia University Bulletin

1981-1982

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The Faculty of Medicine
College of Physicians & Surgeons

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Academic Calendar, 1981–1982

Major Religious Holidays

For a statement of University policy on absence for the observance of religious holidays see *Admission, Registration, and Expenses*—Attendance.

JUNE

22-26 Monday-Friday.* Registration for fourth-year students.

22 Monday, through July 2, Thursday.* Registration for third-year students.

JULY

1 **Wednesday. Academic year begins for fourth-year students.**

4 **Saturday. Independence Day. Holiday for fourth-year students.**

6 Monday. Major Clinical Year begins for third-year students.

AUGUST

3 Monday.† Last day to apply or reapply for all degrees to be conferred in October (see September 10).

24-28 Monday-Friday. Optional early registration for second-year students.

SEPTEMBER

3 Thursday.* Registration for first-year students.

4 Friday.* Registration for second-year students.

7 **Monday. Labor Day. Holiday for third- and fourth-year students.**

8 **Tuesday. Academic year begins for first- and second-year students.**

10 Thursday. Last day to file *late* applications for October degrees.

OCTOBER

28 **Wednesday. Award of October degrees.**

NOVEMBER

3 **Tuesday. Election Day. Holiday for first- and second-year students.**

6 Friday.† Last day to apply or reapply for all degrees to be conferred in January (see December 11).

26-27 **Thursday–Friday. Thanksgiving holidays for first-, second-, and third-year students.**

**Students allowed to register after the period specified must pay a late fee.*
†Students who apply after this date must pay a late fee.

DECEMBER

11 Friday. Last day to file *late* applications for January degrees.

19 **Saturday, through January 3, 1982, Sunday. Vacation for first-, second-, and third-year students.**

21 Friday. First semester ends for first-year students.

JANUARY

4 Monday. Second semester begins for first-year students.

27 **Wednesday. Award of January degrees.**

FEBRUARY

22 **Monday. Washington's Birthday. Holiday for first- and second-year students.**

22 Monday.* Last day to apply or reapply for all degrees to be conferred in May (see April 1).

MARCH

7 Sunday. Annual Commemoration Service in St. Paul's Chapel.

APRIL

1 Thursday. Last day to file *late* applications for May degrees.

3 **Saturday, through April 11, Sunday. Vacation for first- and second-year students.**

6–7 **Tuesday-Wednesday. National Boards Part II for students failing September 22–23 examination.**

MAY

5 Wednesday. Dean's Day for Medical Student Research.

19 **Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.**

29 **Saturday, through June 9, Wednesday. Study period for second-year students.**

31 **Monday. Memorial Day. Holiday for first-, second-, and third-year students.**

JUNE

8-9 **Tuesday–Wednesday. National Boards Part I for second-year students.**

10 **Thursday, through July 4, Sunday. Vacation for second-year students.**

11 Friday. Second semester ends for first-year students.

18 Friday. Major Clinical Year concludes for third-year students.

JULY

1 Thursday. Elective curriculum begins for third-year students.

5 Monday. Major Clinical Year begins for second-year students.

**Students who apply after this date must pay a late fee.*

Dates of National Board Exams

Part I September 9-10, 1981. Not given at P&S.
June 8-9, 1982. Required by P&S.

Part II September 22-23, 1981. Required by P&S.
April 6-7, 1982. Not given at P&S.

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Bard Haven Towers

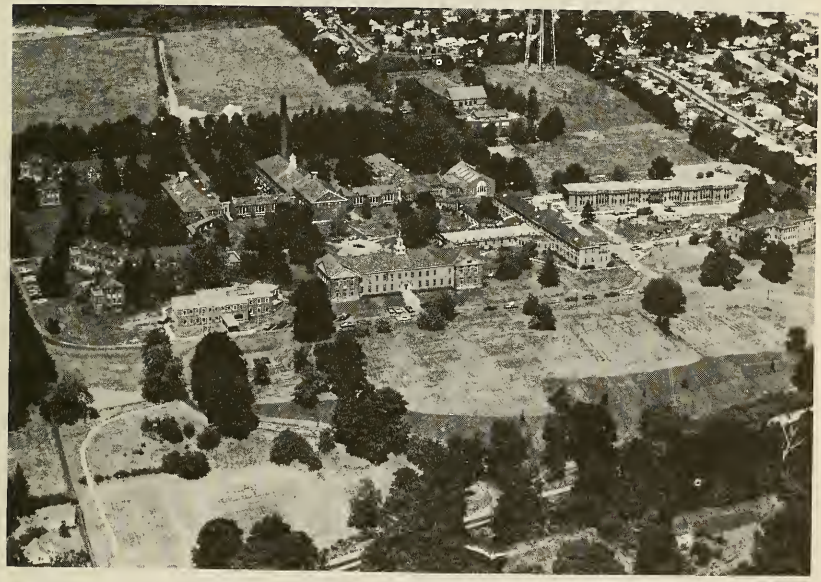
Martin Luther King, Jr., Pavilion, Harlem Hospital Center

St. Luke's Hospital Center

Roosevelt Hospital

Mary Imogene Bassett Hospital

Overlook Hospital



Helen Hayes Hospital

Julius and Armand Hammer Health Sciences Center—
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The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which the physician's knowledge develops.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to Ms. Rosalind S. Fink, the Director of the University's Office of Equal Opportunity and Affirmative Action (305 Low Memorial Library, New York, N.Y. 10027, telephone 212-280-5511), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above-mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment qualified special disabled veterans and veterans of the Vietnam era.

All employees, students, and applicants are protected from coercion, intimidation, interference or discrimination for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has also been designated to coordinate the University's compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied equal opportunity should contact this Office, which will investigate complaints and counsel employees on questions relating to equal opportunity and affirmative action.

The University's Equal Opportunity Office has also been designated to coordinate the University's compliance activities under each of the programs referred to above.

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

History of the College and University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of

Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Augustus C. Long Health Sciences Library

The Columbia University Health Sciences Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 360,000 volumes and a staff of 40, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 3,000 periodicals are received regularly. An entire floor of the library has been designated as a media center and is equipped with a variety of audiovisual materials. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. Materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of approximately twenty other research institutions including Stanford and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Cancer Center/Institute of Cancer Research

The Cancer Research Center was established in 1973. In 1977 it was designated the Cancer Center/Institute of Cancer Research. In 1979 the Center was awarded Comprehensive status by the National Cancer Institute in recognition of its broad responsibility for research, patient care, and cancer control activities. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's, Roosevelt, Harlem—as well as Overlook in Summit, New Jersey, and Morristown Memorial Hospital in New Jersey. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the care of patients with cancer.

The Institute of Cancer Research of Columbia University, College of Physicians and Surgeons, was established in 1911 with funds bequeathed to the University by George

Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938.

The Comprehensive Cancer Center and the Institute of Cancer Research were separated in 1980 to function as two separate entities. While both are mutually involved in a clinical and basic research cancer effort, their administrations function autonomously.

Center for Community Health Systems

The Center for Community Health Systems is an interdisciplinary and interdepartmental health services and health policy research and development center which enlists varied resources of the University, particularly those of the Faculty of Medicine and its affiliated hospitals, in a systematic study of problems in the organization and delivery of health care, with a predominant, though not exclusive, focus on urban areas.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are under way, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the seventh floor of the Health Sciences Center.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 by Dr. Howard C. Taylor and was made possible by a substantial grant from the Ford Foundation. The primary purpose of the founders was to foster research in the sciences relevant to the solution of the world population problem. In more recent years, the aims of the Institute have been interpreted more broadly to include reproductive health services for women, international research and technical assistance, social science research, and academic programs. The Institute now consists of three centers.

The Center for Reproductive Sciences is composed of an interdisciplinary group of investigators devoting themselves to the study of the biochemical and physiological aspects of reproduction in men and women. It also comprises a clinical division involved in the diagnosis and treatment of the diseases of female reproduction.

The aims of the Center for Population and Family Health are more specifically relevant to the social consequences of human reproduction. The Center's community-oriented Reproduc-

tive Health Services for Women Unit, in cooperation with the division of ambulatory care of the Department of Obstetrics and Gynecology, provides care, with emphasis on services for adolescents, to the community surrounding the Columbia Presbyterian Medical Center. The Center's International Research and Technical Assistance Unit works with a number of foreign governments and with private organizations toward improved basic health and family planning services for poor people in developing countries. The Social Sciences Research Unit conducts ongoing evaluations of the Center's domestic reproductive service programs and carries out a basic research program on the causes and consequences of adolescent fertility. Finally, as a division of the School of Public Health, the Center provides academic programs leading to the M.P.H. and Dr.P.H. degrees in the fields of population/family planning, maternal and child health, and public health nutrition.

A third unit has recently been added to the Institute: the Center for Male Reproduction. The Center consists of an interdisciplinary group of basic scientists and clinicians engaged in the study and treatment of the diseases of the male reproductive system.

The offices of the Centers for Reproductive Sciences and for Male Reproduction are at 630 West 168th Street and the office for the Center for Population and Family Health is at 60 Haven Avenue, Floor B-3, New York, N.Y. 10032.

Affiliated Hospitals

The Presbyterian Hospital

Founded in 1868, the Hospital joined with the Columbia College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the permanent alliance agreement with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,291 beds and 48 bassinets.

The Hospital includes all of the individual units described below:

Presbyterian Hospital is the single largest hospital unit.

The New York Orthopaedic Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was merged with the Presbyterian Hospital.

Squier Urological Clinic is the Urology Service of the Presbyterian Hospital.

Sloane Hospital for Women was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now is part of the Presbyterian Hospital's new Center for Women and Children.

Harkness Pavilion, erected when the Medical Center was established in 1928, is available for the accommodation of private and semiprivate patients from various services.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies. It is now part of the Center for Women and Children.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute includes facilities added in 1960 for psychiatric patients.

The Edward S. Harkness Eye Institute, opened in 1933, has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the outpatient department for the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 186 beds and a staff of specialists who are all salaried and full time. In 1979 there were 116,764 visits to the Outpatient Department. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 23,000 volumes and about 350 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of nearly 1,100 beds serving Central Harlem and environs, responsible for the care of approximately 400,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is an independent rehabilitation hospital with complete medical services, owned and operated by the state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. In 1980 a new 213-bed hospital building was opened, renovation of existing research facilities was completed, work began on construction of new research quarters, and plans were completed for establishment of several major new research centers. The Hospital's long-standing program of bioengineering research now becomes the Orthopedic Engineering and Research Center; to this will be added the Regional Bone Center, Regional Arthritis Center, and Skeletal Pathology Center.

Morristown Memorial Hospital

Morristown Memorial Hospital is a regional hospital center offering comprehensive health services for the entire family. It is a voluntary, nonprofit institution with a history of community service dating back to 1892. The hospital has become a central health care facility serving Morris, Warren, Sussex, and Somerset counties, and a medical referral center for all of northwest New Jersey. Morristown Memorial is also a teaching hospital, with programs for

medical, nursing, and technical staff. It became affiliated with the College of Physicians & Surgeons in 1979. Morristown Memorial, Overlook Hospital in Summit, and St. Barnabas Hospital in Livingston are members of the Shared Services Consortium pioneering regionalized health care services in northern New Jersey. With 689 beds, 1,700 employees, 678 nurses, a medical and dental staff of more than 400, and a full spectrum of basic and highly specialized services, Morristown Memorial combines the traditional advantages of a community hospital with the advanced capabilities of a progressive medical center. The hospital has two divisions: one where the emphasis is on acute care; the other, a center for preadmission testing, geriatric extended care, outpatient and alcoholic services, and planned facilities for subacute and rehabilitative care.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 540-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and primary care internal medicine and pediatrics through a program of broad-based clinical experience for graduate physicians. Outreach programs have been pioneered in alcoholism and other addictive illness, home-care-based hospice, and mobile intensive care utilizing paramedics.

St. Luke's–Roosevelt Hospital Center

St. Luke's Hospital Center, which has included Woman's Hospital since 1953, merged with The Roosevelt Hospital in 1979, forming a Hospital Center containing 1,363 beds and serving a catchment area spanning Manhattan's west side from 34th to 134th Streets. Both hospitals had maintained teaching affiliations with the College of Physicians and Surgeons of Columbia University for many years before 1971, when they each became full University hospitals. Under the terms of the affiliation with Columbia University, new members of the medical staff are appointed by the Hospital Center's Board of Trustees after they have received appointments as officers of instruction at the College of Physicians and Surgeons.

St. Luke's Hospital Center Division

St. Luke's was established in 1850 and has been on Morningside Heights next to the main Columbia campus since 1896. It merged with Woman's Hospital in 1953, and today the hospital complex contains 780 beds, including 45 pediatric beds, 59 obstetric beds, and 50 bassinets. Approximately 24,000 patients are admitted yearly to the four major and eleven specialty services. The attending staff numbers 600 doctors; the house staff consists of 219 residents and fellows.

St. Luke's is recognized as a leader in such fields as heart surgery, kidney transplantation, artificial kidney treatments, and noninvasive diagnosis (ultrasound). The Hospital Center's clinically oriented research projects are involved in such areas as blood diseases, coronary artery disease, gastroenterology, obesity and nutrition (it is the site of the only federally funded obesity research center), pulmonary disease, renal transplant-immunology, and bioengineering. A medical library of 22,000 volumes is an integral part of the Hospital Center. St. Luke's is both a major referral institution and a community hospital. The more than fifty specialty and subspecialty clinics see 50,000 patients yearly (totaling approximately 200,000 visits); the Emergency Room is one of the busiest in Manhattan, with 76,000 visits annually. The Hospital Center also operates extensive community programs in alcoholism treatment, drug detoxification, and mental health.

Roosevelt Hospital Division

The Roosevelt Hospital treated its first patient in 1871. It contains 583 beds and bassinets. There are about 217,000 outpatient and emergency-room visits annually. Approximately 19,000 patients are admitted to this hospital yearly. The hospital is engaged in many research and teaching activities. There are 159 members on the house staff. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction and Alcoholism Programs and many other outreach and community services sponsored by the Departments of Pediatrics, Psychiatry, and Medicine, and the ambulatory care division.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Department of Mental Hygiene. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to carry out research on the causes and treatment of psychiatric disorders and the education of those entering the mental health field. The Institute currently maintains twelve major research laboratories, a hospital, and a number of specialized outpatient departments providing diagnostic and treatment facilities. A new thirteen-story research building is scheduled to open in late 1981.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in September of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other courses in chemistry covering at least one academic year each. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. Students applying for admission must also have taken the Medical College Admission Test in the spring or autumn of the year of application, but only if the test scores will be sent to medical schools in the State of New York; if the scores will not be sent to this school, the requirement will be waived for all applicants. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $25. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested only by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think

for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and to develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Only a very small number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if a vacancy exists.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission with advanced standing to this school from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been able to admit relatively few individuals, either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. The Office of the Registrar, on the first floor of the Black Building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Any who do not now have a number should obtain one from their local Social Security office well in advance of registration.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other

institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period without the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Conduct

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar.

Where scheduling conflicts prove unavoidable, no student will be penalized for absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (Black Building, Room 138) no later than September 12 in the autumn term and January 28 in the spring term. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Beginning with the academic year 1979-1980, University charges such as tuition and fees, residence halls, and board plans may be paid at the student's convenience during the term. The full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a finance charge of 1 percent a month is assessed on amounts not paid by the due date shown on the monthly bill. In either event, however, the student is required to sign a Retail Installment Credit Agreement at the time of registration which sets forth the full terms and conditions of payment. All charges must be paid by the end of the term.

Tuition, the student health service fee, and the health insurance premium are payable as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (*see* the Academic Calendar), they will not be reduced, and a minimum late fee of $50 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$8,600.00

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1-August 31)

Health service fee	$255.00
Hospital insurance premium	188.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Office of the Registrar, Black Building, Room 138, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees

For admission	$25.00
For late application, or late renewal of application, for a degree	50.00

Late Registration Fees

	Full-Time	*Part-Time*
During late registration	$ 50.00	$50.00
Up to four weeks after late registration	100.00	60.00
Four to eight weeks after late registration	150.00	70.00
Eight to twelve weeks after late registration	200.00	80.00
Beyond twelve weeks after late registration	250.00	90.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Registrar in writing: failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. Application fees, late fees, and special fees are not refundable.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$75.00
Part-time study	40.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

Adjustment Schedule

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$40 or $75	0
Week following second Saturday after first day of classes	40 or 75	10
Second following week	40 or 75	20
Third following week	40 or 75	30
Fourth following week	40 or 75	45
Fifth following week	40 or 75	60
Sixth following week	40 or 75	75
Seventh following week	40 or 75	90
Eighth following week	40 or 75	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Registrar, 630 West 168th Street. In the 1981–1982 academic year, the last day to file for an October degree is August 3; for a January degree, November 6; and for a May degree, February 22. A late fee of $50 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 10 for October degrees, December 11 for January degrees, April 1 for May degrees). Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application. A $50 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above.)

Requests for Transcripts

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of the Registrar, 201 Philosophy Hall, Columbia University, New York, N.Y. 10027. *Official* copies will be sent directly by the University only to an official address such as another university, a business firm, or government agency. However students or alumni may request that unofficial copies of their transcripts (stamped "Student Copy") be sent directly to them.

There is a charge of $5 for each transcript requested singly, or $5 for the first copy and $1 for each additional copy requested at the same time. There is no charge for intrauniversity copies sent between University offices. Transcript requests are processed in the order received and require five to seven working days for processing. Specific deadlines should be mentioned, and checks accompanying requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$8,600.00
Health and Hospitalization Insurance Fees	443.00
Books and supplies	675.00
Microscope rental cost and other equipment	525.00

In addition to the educational costs listed above, each first-year student should budget approximately $5,075 to cover housing ($1,970), food ($2,130), clothing, laundry and dry cleaning ($300), and miscellaneous expenses ($675).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for students in the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with a swimming pool, basketball and squash courts, and facilities for other sports.

Room rates at Bard Hall depend on the length of the academic year and the room assignment. Information on the cafeteria service, room application forms, and other details are provided for entering students by the Admissions Office. Selected one-bedroom apartments in the Bard Haven Towers are reserved for married students. Other one-, two-, and three-bedroom apartments can be rented by groups of single students.

For further information concerning on- and off-campus housing on or near the Health Sciences Campus, write to the Assistant Director of Residence Halls, Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Tower I on the Medical Center campus. Married or single students may rent apartments in Towers II and III; the rents are higher. Information may be obtained from the Manager, Bard Haven Towers, 100 Haven Avenue, New York, N.Y. 10032.

Financial Aid

All financial aid awards are based on demonstrated need. Each year applicants for financial aid are required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

The federal government makes available each year a limited number of one-year full scholarships for first-year students of Exceptional Financial Need (EFN). Funds are allocated to medical schools, who are responsible for selection of EFN recipients. Students need not request consideration for these funds directly. Awards are determined from the information provided on the financial aid application.

Upon acceptance to the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State has instituted the Special Regents Medical Scholarship, which is intended to ease the physician shortage in certain areas of the state. The Financial Aid Office provides interested students with the necessary information on applications for these programs. Applicants to medical school should consult college premedical offices for information on the competitive New York State General Regents Scholarships for Professional Study of Medicine.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States or permanent residents (visa status). Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 250 West 57th Street, New York, N.Y. 10019 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial

need. A grant for one year may be renewed upon application. The Financial Aid Office of the College of Physicians and Surgeons advises students of the availability of this scholarship annually.

There are a number of scholarship funds administered by the Financial Aid Office of the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ALUMNI A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA AND ABRAHAM PENNER BERNHEIM SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

GEORGE BLUMENTHAL, JR. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

DR. HARRY BRITENSTOOL MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

DR. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

ALONZO CLARK Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

HENRY D. CRUGER Bequest of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DAVID M. DEVENDORF Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

FRANCIS E. DOUGHTY Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

WILLIAM H. HEMINGWAY

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

CHARLES EUGENE HUBER, SR. Bequest of Francis D. Huber, in memory of his father.

FRANCIS HUBER Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students studying under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber.

ELIZABETH HALL McCULLOGH Given by Mrs. William G. Heaphy, in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons.

HERBERT D. MANLEY Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH F. SAPHIR MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus's services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, Jr., MEMORIAL Given by Dr. E. E. Stewart, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

HAROLD S. VAUGHAN Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the class of 1945, in memory of their classmate.

WHITING—Dr. FORDYCE B. St. JOHN SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Dr. JAMES LANCELOT WILSON Awarded to a student selected by the College of Physicians and Surgeons.

Gift Funds

CITIBANK MEDICAL SCHOLARSHIP Established by the Citibank. The recipient must have demonstrated need for support and he/she must be a New York State resident.

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees. Foreign students may borrow from federal or state loan funds upon being granted permanent resident visa status in the United States.

Health Professions Student Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus $2,500. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 9 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during period of deferment.

Health Professions Loans are *forgiven* or *cancelled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state that has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be cancelled.

National Direct Student Loans. Funds are allocated by the Office of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The total (undergraduate and graduate school loans) available to a student from the NDSL program is $12,000. The current interest rate, payable during the repayment period, is 5 percent on the unpaid principal. Repayment begins six months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service, during service in the Peace Corps or Volunteers in Service to America (VISTA), or for up to two years during service in an internship required to begin professional practice.

Federal and State Guaranteed Loans. Under the auspices of the Bureau of Student Financial Assistance of the Department of Education, federally insured loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is $5,000, and the total outstanding loan balance at any one time may not exceed $25,000. Lending institutions participating in this program can provide information regarding interest rates, repayment, and deferment of repayment.

University loan funds are also intended to supplement students' resources when monies are available. Included among these are the following funds:

PETER AMAZON Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, Jr. Used for the assistance of needy students in the medical school.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. Gift of George L. Hawkins, Jr., Class of 1941.

B. H. HOMAN, JR., REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

ROBERT ABBE MACKENZIE Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S, wherever they are in training, or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

JESSIE SMITH NOYES

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation

costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in fifteen years; without interest for the first ten years; with 5 percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

ALUMNI ASSOCIATION AWARD Given for outstanding achievement.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

JANEWAY PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Dr. HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

EDITH AND DENTON McKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

Dr. HAROLD LEE MEIERHOF MEMORIAL PRIZE Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

NEW YORK ORTHOPEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

Dr. ALFRED STEINER AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

Dr. HAROLD B. STEVELMAN AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

UROLOGY PRIZES Awarded to senior students for the best essays on urological subjects.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of the diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and those who chair the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Fine Arts, Athletics, Community Youth Work, Accessories, Social, and Columbia-Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Alumni Association

The P&S Alumni Relations Office serves to foster and maintain cordial relationships between the College of Physicians and Surgeons and its alumni, and is responsible for alumni relations programming and alumni annual fund raising projects.

Regular members of the Alumni Association include all those awarded the M.D. or Med.Sc.D. degrees from the College as well as those awarded the Certificate in Psychoanalytic Medicine. Associate members include faculty members of the College, all house staff members and visiting fellows at hospitals affiliated with P&S, and all Ph.D. graduates of the Basic Sciences Curricula.

The work of the Alumni Association is accomplished through the efforts of its officers and the sixteen standing and *ad hoc* committees, all of whom form the constituency of the P&S Alumni Council. Members are encouraged to participate in the work and activities sponsored by the Association. Liaison with the College is facilitated through the office of the Assistant Dean for Alumni Affairs. Among the important functions of the Association is participation in the publication of *P&S,* a magazine cosponsored by the alumni and the medical school. This publication serves as a major form of communication between the school and its alumni, the faculty, the students and their parents, and other friends and associates of the College.

Restricted revenues raised by the Alumni Association provide funds for endowed scholarships at the College of Physicians and Surgeons and toward the endowment of a P&S Alumni Association professorship. Unrestricted revenues raised by the Association allow the College flexibility in applying funds to areas of greatest need. Routinely, a substantial stipend from unrestricted revenues goes to the P&S Club.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. As members of the Student-Alumni Relations Committee, students and alumni work together in addressing students' current needs and seeking solutions to their problems.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 2005-C, Black Building, 630 West 168th Street, New York, N.Y. 10032. Telephone: (212) 694-3498.

The Program of Instruction

The first-year curriculum is largely devoted to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. Each fourth-year student is required to take a one-month elective in ambulatory care which includes clerkship experience in Public Health/Community Medicine. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses (*Abnormal Human Biology, Introduction to the Patient,* and *Psychiatric Medicine I and II*), major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: the First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may

direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss, or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is determined to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass National Board examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of twelve weeks or less.

Summary of Curriculum (for students entering in September 1981)

First Year

SEPTEMBER 8, 1981, to JANUARY 15, 1982. First semester.

JANUARY 18, 1982, to JUNE 10, 1982. Second semester.

Second Year

SEPTEMBER 1, 1982, through MAY 31, 1983.

Third and Fourth Years

JULY 1, 1983, through APRIL 30, 1985.

Basic Science and Introductory Clinical Courses of the First and Second Years

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastroenterology, Dr. Glickman; Hematology, Dr. Rifkind; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Weinstein; Nephrology, Dr. Al-Awqati; Surgery, Dr. Lo-Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy 101F. Microscopic anatomy
Dr. Nunez and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy 102F. Human anatomy
Drs. April, Moss, and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy 103F. Developmental anatomy
Dr. Pfenninger and departmental staff.
Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F-Microscopic anatomy*.

Biochemistry 101F. Introductory biochemistry
Dr. Gold and departmental staff.
Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics 101S. Introductory clinical genetics
Dr. Bloom and associates.
Lectures emphasizing general principles of genetics and their clinical application.

Medicine 101S. Introduction to the practice of medicine
Drs. Canfield, Marcus, and associates.
Lectures, conferences, and seminars addressing ethical and personal issues relevant to the practice of medicine.

Medicine 102S. Introduction to the patient
Dr. Morris and associates.
A series of interdepartmental presentations and demonstrations followed by an intensive four-week preceptorship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student will learn to take a comprehensive medical history and to perform a complete physical examination.

Microbiology 101F. General microbiology
Drs. Erlanger, Ginsberg, and departmental staff.
Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Anatomy-Physiology 106S. Neural science
Drs. Kandel, Kelly, Kupfermann, Rowland, Schwartz, and Spencer.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Nutrition 101F. Introduction to nutrition
Dr. Winick and associates.
Lectures that define the elements of nutrition essential for good health.

Pathology 101F. General pathology
Dr. C. Fenoglio and departmental staff.
Lectures, conferences, and laboratory emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems.

Pathology 102S. Systemic pathology
Drs. Branwood, C. Fenoglio, and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies to elucidate the pathogenesis of findings in disease.

Pathology 103S. Neuropathology
Dr. Duffy and associates.
Lectures, demonstrations, and microscopic studies of diseases of the nervous system.

Pharmacology 101S. General and special pharmacology
Dr. Kahn and departmental staff.
Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Medicine 105F. Physician-patient relationship
Dr. Park and associates.
Preceptor sessions emphasizing the central role of the physician-patient relationship in the practice of medicine and the importance of the effects of health care organization and other factors on that relationship.

Physiology 101F. Human physiology
Dr. Nocenti and departmental staff.
Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry 101F. Psychiatric Medicine, I
Dr. Arkow and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Psychiatry 102S. Psychiatric Medicine, II
Dr. Arkow and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health 101F. Structure of health care systems
Dr. Rosenberg and associates.
Lectures and seminar groups on the current organization of health care.

Public Health 102F. Epidemiology
Dr. Rush and associates.
Lectures and seminars to present epidemiological principles.

Public Health 103F. Biostatistics
Dr. Fleiss and associates.
Lectures on the basic elements of biostatistics applicable to medicine.

Public Health 104F. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year

Anesthesiology 201. Clinical clerkship in anesthesiology
Dr. Bendixen and staff at the Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannikin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannikin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe indications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis, and treatment of local anesthetic drug toxicity.

Dermatology 201.
Dr. Harber and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Loeb and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology 201. Clinical clerkship in neurology
Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology 202. Neurosurgery
Dr. Stein and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Obstetrics and Gynecology 201. Clinical clerkship in obstetrics and gynecology
Dr. Vande Wiele and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology 201. Clinical clerkship in ophthalmology
Dr. Campbell and staff.

Orthopedic Surgery 201. Clinical clerkship in orthopedic surgery
Dr. Garcia and staff at the Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology 201. Clinical clerkship in otolaryngology
Dr. Abramson and staff at the Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics 201. Clinical clerkship in pediatrics
Dr. Katz and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Psychiatry 201. Clinical clerkship in psychiatry
Dr. Malitz and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Downey and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff at the Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery 202. Lectures and demonstrations in surgical pathology
Drs. C. Fenoglio, Lane, and staff at the Presbyterian Hospital.
Included in *Surgery 201.*

Urology 201. Clinical clerkship in urology
Dr. Olsson and staff.
During the clinical clerkship in urology students learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

Fourth Year

Interdepartment 301. Ambulatory care/public health selective
Dr. C. Neu, course coordinator.
Each student in the fourth year is required to select an elective in ambulatory care, which includes clerkship experience in Public Health/Community Medicine. (For the rest of the Fourth Year see page 43 and the elective catalogue.)

Special Programs

M.D.-Ph.D. Program

The College of Physicians and Surgeons and the Graduate School of Arts and Sciences have formed a cooperative program leading to both the M.D. and Ph.D. degrees. This program is supervised by the Graduate Biomedical Sciences Advisory Committee and permits medical students who have a serious interest in basic biomedical research to obtain the Ph.D. degree in one of the fourteen participating disciplines in the program. At least two additional years of study beyond the four required for the M.D. degree should be anticipated for completion of this program. The program is supported by traineeships from the National Institutes of Health.

Applicants interested in the M.D.-Ph.D. program should write for further information and application forms to:

Dr. David Schachter
Chairman, Graduate Biomedical Sciences
Advisory Committee
Department of Physiology
630 West 168th Street
New York, N.Y. 10032

They should, moreover, make separate, concurrent application for admission to the College of Physicians and Surgeons.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the health care delivery system and the technological, social, and political forces that contribute to the problems and patterns of illness, medical care, and delivery of services. They also develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student uses vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student registers concurrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degrees may be awarded simultaneously at the end of the fourth year; either degree may be awarded separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y., 10032, or the Dean's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Programs in Physical Therapy and Occupational Therapy

Educational programs are offered by the Department of Rehabilitation Medicine to students who have already earned a bachelor's degree. They may apply for admission to a two-year program leading to the Master of Science degree in physical therapy or occupational therapy, or a second professional Master of Science degree in occupational therapy education or occupational therapy administration. Details are given in the bulletin of Programs in Physical Therapy and Occupational Therapy.

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or its equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director, Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Clinical Genetics

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics

are coordinated and integrated by the Program in Clinical Genetics, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics offers fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Program in Clinical Genetics, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881-1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be most meritorious.

Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with the resident's specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-

Presbyterian Medical Center are eligible for this degree. A minimum of two years of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of comprehensive and oral examinations and submission of a dissertation.

Departments of Instruction

Listed are only those faculty appointments and promotions approved by September 1, 1981.

The designation "also" is used with the name of an individual holding a joint appointment in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in." In either case, the name appears in both departmental lists.

Anatomy and Cell Biology

Professor and Chairman

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

Professors

Charles A. Ely. *B.A., Washington and Jefferson, 1946; M.S., Hawaii, 1940; Ph.D., Wisconsin, 1949*
Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
Virginia M. Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Adjunct Professor

Manfred Otto Nahmmacher. *Ph.D., Giessen (Germany), 1960*

Associate Professors

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Stephen B. Doty (in Orthopedic Surgery). *B.A., Rice, 1961; M.A., 1963; Ph.D., 1965*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Karl H. Pfenninger. *M.D., Zurich, 1971*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*

Associate Professor of Clinical Pathology

Arline D. Deitch. *B.A., Brooklyn, 1944; M.A., Columbia, 1946; M.D., 1954*

Adjunct Associate Professor

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Kansas, 1956*

Assistant Professors

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*
Craig H. Bailey (also Psychiatry). *B.A., Lehigh, 1967; M.S., 1969; Ph.D., 1973*

Julia R. Currie. *B.A., Harvard, 1967; Ph.D., Washington (St. Louis), 1974*
Halina Den (in Neurology). *B.S., Frankfurt, 1949; M.S., New York University, 1954; Ph.D., Michigan, 1958*
Abraham B. Eastwood (in Neurology). *B.S., Muhlenberg, 1965; M.S., Lehigh, 1967; Ph.D., 1971*
James P. Kelly. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Daniel M. Linkie (in Obstetrics and Gynecology). *B.S., State University of New York (Downstate), 1962; M.S., State University of New York (Albany), 1963; Ph.D., Michigan, 1971*
Marie-France Maylie-Pfenninger. *Baccalaureate, Algiers, 1960; L. ès Sc., Marseilles, 1963; Docteur de Specialité, 1967; Ph.D., 1972*
Tuan Duc Pham (also Pharmacology). *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M. Phil., Ph.D., Columbia, 1975*
Taube Pearl Rothman. *B.A., City College, 1969; Ph.D., Cornell, 1975*
Samuel Mark Schacher (also Psychiatry). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*
Michael A. Silver. *B.A., Colgate, 1971; Ph.D., Rochester, 1977*
Klaudiusz Weiss (also Psychiatry) (in Dentistry). *M.A., Warsaw, 1967; Ph.D., State University of New York (Stony Brook), 1973*

Adjunct Assistant Professor

Ian Blair Fries. *B.A., Columbia, 1964; M.D., 1968*

SENIOR STAFF ASSOCIATES
Gary E. Pickard, Ph.D.
Diane L. Sherman, B.S.
Ira Wallis, Ph.D.

STAFF ASSOCIATE
Rochelle Small, Ph.D.

INSTRUCTOR
Sharon C. Colacino, Ph.D.

LECTURER
Cheryl F. Dreyfus, Ph.D.

Anesthesiology

Professor and Chairman

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

Professors

Mieczyslaw Finster (also Obstetrics and Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (also Pharmacology). *M.B., National Central (Nanking), 1944*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Associate Professors

Ralph A. Epstein. *B.A., Columbia, 1959; M.D., Harvard, 1963*
Allen I. Hyman (also Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Associate Professor of Clinical Anesthesiology

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

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Michael C. Damask. *B.A., Case Western Reserve, 1970; M.D., Chicago Medical School, 1974*
Foun-Chung Fan. *M.D., Taipei Medical College (Taiwan), 1972*
Arthur Donald Finck. *B.S., Lafayette, 1968; M.D., Columbia, 1972*
Warren K. Grodin. *B.A., Minnesota, 1967; M.D., London, 1975*
John A. Holzer. *B.A., California (Berkeley), 1968; M.D., 1972*
Hoshang Jal Khambatta. *M.D., Karachi, 1958*
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INSTRUCTOR IN CLINICAL ANESTHESIOLOGY

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Assistant Clinical Professors

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Kamil Ugurbil. *Ph.D., Columbia, 1977*
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INSTRUCTOR IN BIOCHEMISTRY

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Zacharias Dische, M.D. (in Ophthalmology)
Karl Meyer, M.D. (in Ophthalmology)
David Nachmansohn, M.D. (in Neurology)
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Associate Professor of Clinical Dermatology

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Vincent S. Beltrani. *B.A., Brooklyn, 1953; M.D., Columbia, 1957*
William De Pietro. *B.S., Massachusetts Institute of Technology, 1972; M.D., Georgetown, 1976*

Marc E. Grossman. *B.A., State University of New York (Buffalo), 1970; M.D., Pennsylvania, 1974*
Eric W. Herman. *B.A., State University of New York (Buffalo), 1972; M.D., Mt. Sinai, 1976*
Einar A. Juhlin. *B.S., Illinois, 1950; M.D., Royal Charles (Sweden), 1957*
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Jack H. Rozen. *B.S., Pittsburgh, 1958; M.D., 1962*
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William G. Atwood, M.D.
Robert P. Feinstein, M.D.
Paul Ira Schneiderman, M.D.
Eugene W. Sweeney, M.D.
Harvey I. Weinberg, M.D.

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Joseph A. Penner, M.D.
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Joseph S. Shapiro, M.D.

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William J. Cunningham, M.D.
Joan P. Noroff, M.D.
Margaret S. Ravits, M.D.
Kass Sadri, M.D.
Robert S. Seibt, M.D.
George E. Thorne, M.D.

SENIOR STAFF ASSOCIATE

Anthony C. Chu, M.B., B.S.

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LECTURERS

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ASSOCIATE IN CLINICAL DERMATOLOGY

Herbert H. Hochman, M.D.

INSTRUCTOR IN CLINICAL DERMATOLOGY

Elaine V. DiGrande, M.D.

ASSISTANTS IN CLINICAL DERMATOLOGY

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Human Genetics and Development

Professor and Acting Chairman

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University Professor

Sol Spiegelman (Director, Institute of Cancer Research). *B.S., College of the City of New York, 1939; M.S., Columbia, 1942; Ph.D., Washington (St. Louis), 1944*

Professors

Kimball C. Atwood. *B.A., Columbia, 1942; M.D., New York University, 1946*
Arthur D. Bloom (also Pediatrics). *B.A., Harvard, 1956; M.D., New York University, 1960*
Georgiana Jagiello (Virgil Damon Professor) (also Obstetrics and Gynecology). *B.A., Boston, 1949; M.D., Tufts, 1955*
Elvin A. Kabat (also Microbiology) (in Neurology). *B.S., College of the City of New York, 1932; M.A., Columbia, 1934; Ph.D., 1937*
Paul A. Marks (also Medicine). *B.A., Columbia, 1946; M.D., 1949*
Orlando J. Miller (also Obstetrics and Gynecology). *B.S., Yale, 1945; M.D., 1950*
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Associate Professor of Clinical Pediatrics

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Michael Ian Sherman. *B.S.C., McGill, 1965; Ph.D., State University of New York (Stony Brook), 1969*
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Assistant Professors

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Medicine

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Professors of Clinical Medicine

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Eric R. Powers. *B.A., Cornell, 1969; M.D., Harvard, 1974*
Frederick G. Rapoport. *B.A., Columbia, 1970; M.D., 1974*
Stanley H. Rosenbaum (also Anesthesiology). *B.A., Columbia, 1967; M.A., Harvard, 1969; M.D., Cornell, 1973*
William H. Sherman. *B.S., Pennsylvania State, 1967; M.D., Jefferson, 1969*
Ethel S. Siris. *B.A., Radcliffe, 1967; M.D., Columbia, 1971*
Alan R. Tall. *M.B., B.S., Sydney (Australia), 1970*
Francis M. Weld. *B.A., Harvard, 1961; M.D., Columbia, 1965*

Assistant Professors of Clinical Medicine

Lester W. Blair. *B.A., Columbia, 1970; M.D., 1974*
David K. Blood. *B.A., Amherst, 1962; M.D., Columbia, 1966*
Norma M.T.W. Braun. *B.A., Pennsylvania, 1959; M.D., Columbia, 1963*
Peter J. Buchin. *B.A., Williams, 1970; M.D., Yale, 1974*
Robert H. DeBellis. *B.S., Queens, 1951; M.D., Columbia, 1958*
Ronald E. Drusin. *B.S., Union (Schenectady), 1962; M.D., Columbia, 1966*
Kenneth C. Fine. *M.D., Catholic (Louvain, Belgium), 1970*
Jerry Glicklich. *B.A., Columbia, 1969; M.D., 1975*
Mark J. Goldberger. *B.A., Johns Hopkins, 1969; M.D., Columbia, 1973*
Victoria E. Guy. *B.A., Duke, 1968; M.D., Pittsburgh, 1976*
Thomas P. Jacobs. *B.A., Amherst, 1964; M.D., Johns Hopkins, 1968*
Lynne L. Johnson. *B.A., Wellesley, 1965; M.D., Columbia, 1969*
Cheryl Kunis. *M.D., Albert Einstein, 1975*
Rafael A. Lantigua. *M.D., Autonomous (Santo Domingo), 1972*
Oscar Lebwohl. *B.A., Dartmouth, 1968; M.D., Harvard, 1972*
Robert M. Magrisso. *B.A., Franklin and Marshall, 1969; M.S.E., Johns Hopkins, 1972; M.D., Albert Einstein, 1976*
Aaron Manson, *B.A. Pennsylvania, 1972; M.D., 1976*
Robert McConnell. *B.A., Hamilton, 1969; M.D., Columbia, 1973*
Robin O. Motz. *B.A., Columbia, 1959; Ph.D., 1965; M.D., 1975*
Carmen Ortiz-Neu. *B.A., Wellesley, 1959; M.D., Columbia, 1963*
Kenneth M. Prager. *B.A., Columbia, 1964; M.D., Harvard, 1968*
Marshall Primack. *B.A., Louisville, 1961; M.D., Johns Hopkins, 1965*
Edith B. Reilly. *B.A., Smith, 1952; M.D., Columbia, 1956*

John L. Roglieri. *B.A., B.S., Lehigh, 1960; M.D., Harvard, 1966*
Martin J. Saltzman. *B.A., Columbia, 1967; M.D., State University of New York (Downstate), 1972*
Harvey A. Schneier. *B.A., Columbia, 1963; M.D., 1967*
Peter E. Schrag. *B.A., Harvard, 1960; M.D., 1964*
Allan Schwartz. *B.S., City College, 1967; M.S., Harvard, 1968; M.D., Columbia, 1974*
Alan H. Seplowitz. *B.A., Columbia, 1968; M.D., 1972*
Richard V. Sims III. *B.A., Amherst, 1970; M.D., Harvard, 1974*
Mark Stoopler. *B.S., Tulane, 1971; M.D., Cornell, 1974*
Joseph Tenenbaum. *B.A., Brandeis, 1968; M.D., Harvard, 1974*
Byron Thomashow. *B.A., Columbia, 1970; M.D., 1974*
Jack B. Weissman. *B.A., New York University, 1966; M.D., Harvard, 1970*
Gail S. Williams. *B.A., Wellesley, 1964; M.D., Columbia, 1968*
Chun Keung Yip. *B.S., St. Francis (Brooklyn), 1972; M.D., Albert Einstein, 1976*

Assistant Professor of Clinical Social Work

Elizabeth R. Prichard. *B.A., Adelphi, 1943; M.S., New York School of Social Work, 1947*

Assistant Clinical Professors

Alfred Becker. *M.D., Albert Einstein, 1962*
Michael H. Cohen. *B.A., Johns Hopkins, 1961; M.D., 1965*
Clarence J. D'Alton. *B.A., Yale, 1939; M.D., Columbia, 1943*
Richard B. Duane, Jr. *B.A., Princeton, 1940; M.D., Columbia, 1943*
Juan G. Edreira. *M.D., Havana, 1951*
Daniel L. Larson. *M.D., Columbia, 1946*
Arnold Lisio. *B.S., Rochester, 1956; M.D., 1961*
Daniel L. Macken. *B.A., Holy Cross, 1955; M.D., Boston, 1960*
Michael F. Parry. *B.A., Yale, 1966; M.D., Columbia, 1970*
John Postley. *B.A., Yale, 1964; M.D., Columbia, 1968*
Nicholas Rango. *B.S., St. Louis, 1966; M.D., Northwestern, 1970*
Arthur I. Snyder. *B.A., Columbia, 1946; M.D., 1950*
Jeffrey A. Stein. *B.A., Harvard, 1960; M.D., 1965*
Cornelius J. Tyson. *B.A., Princeton, 1939; M.D., Columbia, 1943*

Assistant Clinical Professor of Social Medicine

Eric R. Marcus (also Psychiatry). *B.A., Columbia, 1965; M.D., Wisconsin, 1969*

ASSOCIATES IN CLINICAL MEDICINE

Marcia B. Bull, M.D.
Elias M. Kaimakliotis, M.D.
Robert Lewy, M.D.
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ASSOCIATE IN SOCIAL MEDICINE

Arthur L. Caplan, Ph.D.

RESEARCH ASSOCIATES

Steven Birken, Ph.D.
Bonnie Bray, M.D.
Gordon A. Campbell, Ph.D.
Joseph Cerreta, Ph.D.
Rose D'Alisa, Ph.D.
Paul Ehrlich, Ph.D.
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RESEARCH ASSOCIATES (*continued*)

Chung Y. Liu, Ph.D.
Mohammed M. Osman, D.V.M.
Ildiko Radichevich, Ph.D.
Steven L. Roffman, Ph.D.
Michael Schonberg, Ph.D.
Robert R. Sciacca, M.S.
John E. Smith, Ph.D.
George Taliadovros, M.D.
Larry D. Witte, Ph.D.

INSTRUCTORS IN CLINICAL MEDICINE

Ronald D. Adelman, M.D.
Howard J. Barnum, M.D.
Eli Bauman, M.D.
Louis D. Carmichael, M.D.
Herbert Chase, Jr., M.D.

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Ann P. D'Adamo, M.D.
Arthur R. DeSimone, M.D.
Stephen Lyle Gluck, M.D.
Michael Goldman, M.D.
Lonnie B. Hanauer, M.D.
Ralph Herz, Jr., M.D.
Oscar Irigoyen, M.D.
Constantine P. Ladapoulos, M.D.
Pamela Ann Lawrence, M.D.
Raymond Lippert, M.D.
Pier Mancusi-Ungaro, M.D.
Marcia Naveh, M.D.
Eduardo R. Pons, Jr., M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

Harriet Lynn Raik, M.D.
Susan Lee Rattner,M.D.
Dennis S. Reison, M.D.
Elizabeth Shane, M.D.
Jane S. Sillman, M.D.
David B. Sutter, M.D.
Sharon Wardlaw, M.D.

ASSISTANTS IN CLINICAL MEDICINE

Helen-Ann Garcia, M.D.
Joseph Heller, M.D.
John E. McWhorter, M.D.
Mato L. Marinovich, M.D.
Milovan T. Rakic, M.D.
Thomas J. Rakowski, M.D.
John M. Rodgers, M.D.
Richard H. Runser, M.D.
Adele Tedeschi, M.D.

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Joan Sobel, M.S.
Margaret Willhite, M.A.

STAFF ASSOCIATES

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Kenneth S. Bannerman, M.D.
John Thomas Barnard, M.D.
Zea Borek, M.B.Ch.B.
Deborah L. Brennan, B.S.
James Coromillas, M.D.
Mary Dalecki, B.A.
Michael Drillings, M.S.
Doris Tse Eng, B.A.
Sylvia H. Ford, M.A.
Donald L. Gammon, B.S.
Michelle Greene, Ph.D.
Anne Hurlet, M.D.
Alan I. Kalischer, M.D.
Michamasa Kato, Ph.D.

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Frank D. Livelli, M.D.
Maria J. Saraiva, M.Sc.
Yolene Thomas, M.D.
Dominique A. Weber, L.esSc.

SPECIAL LECTURERS

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Hylan A. Bickerman, M.D.
Andre F. Cournand, M.D.
Albert Lamb, M.D.
Hamilton Southworth, M.D.
Alfred Steiner, M.D.

LECTURERS

Nicholas Christy, M.D.
Edward E. Fischel, M.D.
Eric S. Lichtenstein, M.D.
William M. Manger, M.D.
John H. McClement, M.D.

At Mary Imogene Bassett Hospital

Associate Professors of Clinical Medicine

John S. Davis. *B.A., Hamilton, 1952; M.D., Harvard, 1956*
Walter Franck. *B.A., Yale, 1960; M.D., Columbia, 1964*
Herbert J. Marx. *B.E.E., Rensselaer Polytechnic Institute, 1954; M.D., Columbia, 1960*

Assistant Professors of Clinical Medicine

Peter L. Arquin. *M.D., Pennsylvania State, 1972*
John F. D'Avella. *B.A., Holy Cross, 1968; M.D., Georgetown, 1972*
Emery C. Herman. *B.A., Emory, 1949; M.D., Johns Hopkins, 1953*
Gary S. Hoffman. *B.A., Harpur, 1964; M.S., Howard, 1967; M.D., Medical College of Virginia, 1971*
Peter J. Howard. *B.A., Dartmouth, 1971; M.D., McGill, 1975*
Alan J. Kozak. *B.A., Rochester, 1965; M.D., 1969*
Don V. Lewis. *B.A., North Carolina, 1967; M.D., 1971*
John J. May. *B.S., Notre Dame, 1969; M.D., Case Western, 1973*
Eric Michael Mazur. *B.S.E., Princeton, 1971; M.D., Johns Hopkins, 1975*
Carolyn I. Mook. *B.A., Smith, 1969; M.D., Johns Hopkins, 1973*
William H. Mook. *B.A., Wesleyan, 1941; M.D., Columbia, 1944*
David S. Pratt. *B.A., New Hampshire, 1967; M.D., Tufts, 1971*
Donald A. Raddatz. *B.A., Holy Cross, 1971; M.D., Minnesota, 1975*
Allan G. Ramsay. *B.A., Western Ontario, 1947; M.D., 1948*
William H. Ramsey. *B.A., Dartmouth, 1967; M.D., Columbia, 1970*
Richard E. Reese. *B.A., Dartmouth, 1965; M.D., Harvard, 1969*
Dennis A. Savoie. *B.A., Providence, 1967; M.D., Vermont, 1971*
Robert S. Sioussat. *B.A., Wesleyan, 1946; M.D., Columbia, 1951*
William Streck. *B.S., Oklahoma State, 1968;M.D., Missouri, 1973*
David S. Svahn. *B.S., Massachusetts Institute of Technology, 1960; M.D., Columbia, 1965*
David W. Vaules. *B.A., Dartmouth, 1960; B.M.S., 1961; M.D., Rochester, 1963*
Gary Weaver. *B.A., Goshen, 1964; M.D., Kansas, 1968*

Assistant Clinical Professor

Donald O. Pollock. *B.A., Hamilton, 1951; M.D., Harvard, 1955*

INSTRUCTORS IN CLINICAL MEDICINE

Antoinette Kuzminski, M.D.
Thomas M. Miller, M.D.
Stephen E. Szebenyi, M.D.

ASSISTANT IN CLINICAL MEDICINE

Carole L. Nunamaker, M.D.

At Harlem Hospital

Professors

John Lindenbaum. *B.A., Cornell, 1954; M.D., Harvard, 1959*
Gerald E. Thomson (Samuel Lambert Professor). *B.S., Queens, 1955; M.D., Howard, 1959*

Clinical Professors

Harold S. Ballard. *B.A., California (Los Angeles), 1948; M.D., Meharry, 1952*
Kenneth Sterling. *B.A., Harvard, 1940; M.D., Johns Hopkins, 1943*

Associate Professors of Clinical Medicine

David Jocelyn Clain. *M.B., Ch.B., Capetown, 1959; M.D., 1968*
Charles P. Felton. *B.Sc., Xavier, 1949; M.D., Geneva, 1956*
Clayton L. Natta (in Pathology). *B.A., McMaster (Ontario), 1957; M.D., Toronto, 1961*

Associate Clinical Professors

George C. Branche. *B.A., Bowdoin, 1944; M.D., Boston, 1948*
John B. Cromie. *M.D., Belfast (Northern Ireland), 1949*
William R. Cunnick, Jr. *B.A., Princeton, 1947; M.D., Columbia, 1951*
Jeanne A. Smith. *B.A., Sarah Lawrence, 1953; M.D., New York University, 1957*
Charles M. Yergan. *B.S., Columbia, 1944; M.D., 1947*

Assistant Professors

Anne M. Briscoe. *M.A., Vassar, 1945; Ph.D., Yale, 1949*
Thomas J. Garrett. *M.D., Queen's (Ontario), 1971*

Assistant Professors of Clinical Medicine

Jay Brown. *B.A., Rutgers, 1964; M.D., New York University, 1968*
Peter C. T. Dickinson. *B.S., McGill, 1958; M.D., 1962*
Jay Franklin Dobkin. *B.A., Columbia, 1968; M.D., Harvard, 1972*
Donald A. Feinfeld. *B.A., Rochester, 1965; M.D., Columbia, 1969*
Kenneth J. Herwig. *B.A., Syracuse, 1967; M.D., Pennsylvania State, 1971*
Wanda Devora Huff. *B.A., Cornell, 1969; M.D., Yale, 1973*
Steven Z. Kussin. *B.A., Columbia, 1970; M.D., Albert Einstein, 1974*

Assistant Clinical Professors

James T. Chien. *M.D., Yale-in-China Medical College, 1943*
Marvin C. Cooper. *B.S., Queens, 1960; M.D., St. Louis, 1965*
Milena L. Lewis. *B.A., Bryn Mawr, 1950; M.D., Columbia, 1954*
Richard R. Prouty. *M.D., Johns Hopkins, 1948*

ASSOCIATES IN CLINICAL MEDICINE

John C. DiJohn, M.D.
Pearl D. Foster, M.D.
Paul Killian, M.D.
Anthony J. Marano, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Jeffrey N. Bradshaw, M.D.
James T. T. Chien, M.D.
Bennie W. Chiles, M.D.
Carl A. Garnier, M.D.
Major Geer, M.D.
Michael H. Gordon, M.D.
Ross T. Hamilton, M.D.
James H. Hubert, M.D.
Herbert Knight, M.D.
Thomas J. Mattimore, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

Clarence S. Murray, M.D.
Luigi M.F. Negri, M.D.
Hazeline M. Nurse, M.D.
Ruth C. Onukwue, M.D.
Velvie Ann Pogue, M.D.
Jon Rothenberg, M.D.
William J. Schwartz, M.D.
Eric J. Vanderbush, M.D.
Michael D. Williams, M.D.

ASSISTANT IN CLINICAL MEDICINE

Douglas Miller, M.D.

SPECIAL LECTURER

Cecil G. Marquez, M.D.

At Helen Hayes Hospital

Professor of Clinical Medicine

Robert Lindsay. *M.P.C.B., Glasgow, 1968; Ph.D., 1969*

At Morristown Memorial Hospital

Professor of Clinical Medicine

Albert S. Klainer. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*

Assistant Clinical Professor

Joseph Ryan. *B.S., Notre Dame, 1965; M.D., State University of New York (Downstate), 1970*

INSTRUCTORS IN CLINICAL MEDICINE

Kenneth R. Adler, M.D.
Hillel Ben-Asher, M.D.
Joel E. Cannilla, M.D.
Alan Chanin, M.D.
Bernard Davidoff, M.D.
Arthur Fisch, M.D.
Arthur J. Geller, M.D.
Gary Gerstein, M.D.
Stephen Guss, M.D.
Arthur N. Hoagland, M.D.
Stephen D. Krasnica, M.D.
Oscar R. Kruest, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

Suohir Mehta, M.D.
Earl Nielson, M.D.
John S. Salaki, M.D.
Michael A. Samach, M.D.
Felix Schletter, M.D.
Zalam R. Schrader, M.D.
Leo H. Siegel, M.D.
Lawrence B. Stein, M.D.
Jerrold M. Stock, M.D.
John S. Thompson, M.D.
Gary R. Weine, M.D.
Barry R. Zitomer, M.D.

At Overlook Hospital

Clinical Professors

Michael Bernstein. *M.D., New York Medical College, 1953*
William F. Minogue. *B.S., Seton Hall, 1951; M.D., New York Medical College, 1960*

Associate Professor of Clinical Medicine

John J. Gregory. *B.S., Worcester Polytechnic Institute, 1953; M.D., Albany, 1961*

Associate Clinical Professors (Family Practice)

Donald F. Kent. *B.A., Pennsylvania, 1935; M.D., 1940*
Richard N. Podell. *B.A., Amherst, 1964; M.D., Harvard, 1969*

Assistant Clinical Professors

Joel L. Duberstein. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Robert A. Fuhrman. *B.A., Clark, 1962; M.D., Chicago, 1966*
Mary T. Herald. *B.A., New Rochelle, 1965; M.D., New Jersey College of Medicine and Dentistry, 1969*
William N. Toth. *B.S., Georgetown, 1956; M.D., Hahnemann, 1960*

ASSOCIATES IN CLINICAL MEDICINE

Stephen J. Fischl, M.D.
Peter Goodluck, M.D.
William A. Tansey III, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Kevin E. Bell, M.D.
Donald J. Brock, M.D.
H. Oliver Brown, Jr., M.D.
Kopel Burk, M.D.
Charles W. Clarke, Jr., M.D.
Andrew Coronato, Jr., M.D.
H. William Diefendorf, M.D.
Charles E. Dooley, Jr., M.D.
John T. Farry, M.D.
Robert B. Francis, M.D.
Sidney E. Friedman, M.D.
Samuel M. Gray, M.D.
Thomas V. Inglesby, M.D.
Robert P. Margie, M.D.
Sanford M. Reiss, M.D.
Melvin Rubinstein, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

R. Gregory Sachs, M.D.
Robert R. Springer, M.D.
Michael Suhl, M.D.
Michael J. Tighe, M.D.
Burton Tucker, M.D.
William E. Wagner, Jr., M.D.
Richard M. Weinberg, M.D.

ASSISTANTS IN CLINICAL MEDICINE

Joseph Belladonna, M.D.
Joseph T. Faraldo, M.D.
Eugene R. Kelly, M.D.
Michael B. Kerner, M.D.
A. Ralph Kristeller, M.D.
David P. Miller, M.D.
Lawrence J. Nastro, M.D.
Steven J. Stanzione, M.D.
David Allen Worth, M.D.

At St. Luke's–Roosevelt Hospital Center

Professors

A. L. Loomis Bell. *B.S., Wesleyan, 1944; M.D., Harvard, 1947*
John F. Bertles. *B.S., Yale, 1945; M.D., Harvard, 1952*
Robert B. Case. *B.A., Ohio Wesleyan, 1953; M.D., Columbia, 1958*
Peter R. Holt. *B.Sc., Tolington, 1949; M.B., B.S., London, 1954*
Gerald B. Phillips. *B.A., Princeton, 1946; M.D., Harvard, 1948*

Theodore B. Van Itallie. *B.S., Harvard, 1941; M.D., Columbia, 1945*
Harvey J. Weiss. *B.A., Harvard, 1951; M.D., 1955*

Professors of Clinical Medicine

William S. Clark. *B.S., Dayton; M.D., St. Louis, 1938*
Stanley Cortell. *S.B., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*
Michael H. Grieco. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1957*
A. Gregory Jameson. *B.A., Harvard, 1937; M.D., Columbia, 1950*
Richard N. Pierson, Jr. *B.A., Princeton, 1961; M.D., Columbia, 1966*

Clinical Professors

Philip H. Henneman. *B.A., Harvard, 1943; M.D., 1946*
Miles J. Schwartz. *B.S., Queens (New York), 1947; M.D., New York University, 1961*

Associate Professor

F. Xavier Pi-Sunyer. *B.A., Oberlin, 1955; M.D., Columbia, 1959*

Associate Professors of Clinical Medicine

Norman A. Cagin. *B.S., Rutgers, 1963; M.D., New York Medical College, 1967*
Edward M. Dwyer, Jr. *B.A., Columbia, 1957; M.D., 1961*
Harvey G. Kemp. *B.A., Oklahoma, 1955; M.D., Johns Hopkins, 1959*
Marianne J. Legato. *B.A., Manhattanville, 1956; M.D., New York University, 1962*
Alice Maniatis. *M.D., Athens, 1960*

Associate Clinical Professors

Richard P. Ames. *B.A., Williams, 1954; M.D., Columbia, 1958*
Albert Attia. *B.A., Cornell, 1955; M.D., 1958*
C. Redington Barrett. *B.A., Yale, 1955; M.D., Columbia, 1959*
James B. Gabriel. *B.A., Brown, 1945; M.D., Harvard, 1949*
Jonas M. Goldstone. *B.A., Harvard, 1951; M.D., 1955*
Albert W. Grokoest. *B.S., Hamilton, 1940; M.D., Columbia, 1943*
Saul Kaplan. *B.S., Columbia, 1964; M.D., Tennessee, 1959*
Arthur Karanas. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1958*
Richard McCray. *B.A., Wesleyan, 1954; B.D., Yale, 1957; M.D., Columbia, 1962*
Myron C. Patterson. *B.A., Columbia, 1939; M.D., 1943*
Bruce H. Pinkernell. *B.A., Johns Hopkins, 1960; M.D., 1964*
Norton S. Rosensweig. *B.A., Princeton, 1957; M.D., New York University, 1961*
Henry G. Schaffeld. *B.A., Columbia, 1938; M.D., 1941*
Lawrence Scharer. *B.A., Columbia, 1954; M.D., 1958*
Gerald Weintraub. *B.A., New York University, 1950; M.D., 1954*
Myron C. Wright. *B.A., Dartmouth, 1937; M.D., New York University, 1940*
Herman Ziffer. *B.A., Brooklyn, 1949; M.D., Chicago, 1953*

Senior Research Associate

Beatrice M. Fairchild. *B.A., Hunter, 1942; M.A., Bryn Mawr, 1943; Ph.D., 1948*

Assistant Professors

Richard Collens. *B.S., Massachusetts Institute of Technology, 1959; M.D., New York University, 1966*
Donald Philip Kotler. *M.D., Albert Einstein, 1973*

Michelle P. Warren (also Obstetrics and Gynecology). *B.A., Mount Holyoke, 1961; M.D., Cornell, 1965*

Assistant Professors of Clinical Medicine

Judith Axelrod. *B.S., Wellesley, 1963; M.D., Cornell, 1967*
Le Clair Bissell. *B.A., Colorado, 1955; M.D., 1958*
Jeffrey M. Brensilver. *M.D., Columbia, 1971*
Airlee A.C. Cameron. *B.A., Radcliffe, 1957; M.D., C.M., McGill, 1961*
Richard Gunnar Carlson. *B.S., Trinity, 1966; M.D., Columbia, 1970*
Edward W. Colt. *M.D., University College Hospital (London), 1962*
Michael Lange. *M.D., Toronto, 1968*
Gertrude Scott Lefavour. *B.A., Goucher, 1965; M.D., Medical College of Pennsylvania, 1970*
Arthur J. Lennon. *B.A., Fordham, 1956; M.D., Columbia, 1960*
Jonathan A. Lorch. *B.A., Wisconsin, 1968; M.D., Tulane, 1972*
Allen Mogtader. *B.A., Columbia, 1966; M.D., State University of New York (Downstate), 1970*
Robert C. Rinker. *B.A., Antioch, 1965; M.D., Pennsylvania, 1969*
Jean W. Saleh. *B.A., St. Joseph (Beirut), 1957; M.D., Faculte Francaise de Medicin, 1964*
Seiichi Shimomura. *M.D., Okayama (Japan), 1945*
William J. Vicic. *B.S., Yale, 1966; M.D., Case Western Reserve, 1970*

Assistant Clinical Professors

Samir E. Alam. *B.S., American (Beirut), 1968; M.D., 1972*
William J. Athos. *B.A., Columbia, 1952; M.D., State University of New York (Downstate), 1956*
Robert S. Beekman. *B.A., Harvard, 1939; M.D., Columbia, 1943*
Harvey Benovitz. *B.A., Washington & Jefferson, 1958; M.D., Albert Einstein, 1962*
Robert Bernot. *B.A., Columbia, 1955; M.D., Buffalo, 1960*
Carlton Boxhill. *B.A., Columbia, 1964; M.D., 1968*
Earl B. Brown. *B.S., Emory, 1938; M.D., 1942*
Donald P. Dallas. *B.A., Columbia, 1950; M.D., 1954*
George Dermksian. *B.A., Columbia, 1948; M.A., 1950; M.D., Tulane, 1954*
Robert K. Emy. *B.A., New York University, 1952; M.D., Medical College of Virginia, 1957*
James A. Feltman. *B.A., Columbia, 1941; M.D., 1944*
Richard P. Fried. *B.A., Brown, 1964; M.D., Columbia, 1968*
Oscar R. Garfein. *B.A., Columbia, 1961; M.D., 1965*
Zane Gaut. *B.S., Birmingham Southern, 1950; M.D., Tulane, 1954*
Richard Geltman. *B.A., Rutgers, 1967; M.D., Albert Einstein, 1971*
Henry M. Greenberg. *B.A., University of Pennsylvania, 1961; M.D., Tufts, 1968*
Joseph A. Grossman. *B.S., City College of New York, 1953; M.D., State University of New York (Downstate), 1957*
Julian B. Hyman. *B.A., Columbia, 1945; M.D., Albany Medical College, 1947*
John H. Keating. *B.A., Columbia, 1941; M.D., 1943*
Ronald Kraft. *B.S., Michigan, 1966; M.D., Cincinnati, 1970*
Athanasius Mallios. *B.A., Columbia, 1968; M.D., State University of New York (Upstate), 1973*
David K. Meriney. *B.A., Duke, 1956; M.D., 1960*
Lawson A. Moyer III. *B.A., Virginia, 1968; M.D., 1972*
William M. Nicholas. *B.A., Williams, 1950; M.D., State University of New York (Syracuse), 1954*
Edward H. Reisner. *B.A., Columbia, 1935; M.D., 1939*
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At Overlook Hospital

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Solomon J. Cohen. *B.A., Cornell, 1944; M.D., Johns Hopkins, 1951*
Gloria Schrager. *B.A., Brooklyn, 1944; M.D., Woman's Medical College of Pennsylvania, 1948*

Assistant Clinical Professors

Joseph I. Boylan. *B.A., Columbia, 1951; M.D., Yale, 1955*
Frederick C. Braun, Jr. *B.S., Georgetown, 1951; M.D., Jefferson, 1955*
Howard S. Britt. *B.A., Boston, 1970; M.D., 1970*
Burton M. Feinsmith. *B.S., Arkansas, 1949; M.S., Florida, 1951; M.D., Berne, 1961*
Benjamin H. Josephson. *B.S., North Carolina, 1949; M.D., New York Medical College, 1952*
Joseph Kalbacher. *B.S., Yale, 1944; M.D., Cornell, 1946*
John H. Krikorian. *B.A., Yale, 1958; M.D., Bowman Gray, 1963*
Carolkay Lissenden. *B.A., Pennsylvania, 1959; M.D., Woman's Medical College of Philadelphia, 1964*
Lewis I. Sank. *B.A., Johns Hopkins, 1957; M.D., 1961*
Frederic A. Schulaner. *B.S., Tufts, 1955; M.D., 1959*
Margaret E. Symonds. *M.B., London, 1941; B.S., 1945*

ASSOCIATES IN CLINICAL PEDIATRICS
Paul Avondoglio, M.D.
Arnold N. Constad, M.D.
Paul A. Kearney, M.D.
Barry Lauton, M.D.
Wayne D. Stettler, M.D.
Charles B. Terhune, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS
Frank P. Frenda, M.D.
Carl H. Herman, M.D.
Alexander R. Horowitz, M.D.
Victor S. Lamberto, M.D.
Bharati S. Mullick, M.D.
Vinnakota V. P. Rao, M.D.

INSTRUCTORS *(continued)*
Dudley A. Roberts, M.D.
Stanislawa Rosnowski, M.D.
Arvind P. Shah, M.D.
James Sorger, M.D.
John F. Vigorita, M.D.
Sandy P. Waran, M.D.

At St. Luke's–Roosevelt Hospital Center

Professor of Pediatrics

Louis Z. Cooper. *B.S., Yale, 1954; M.D., 1957*

Associate Professors of Clinical Pediatrics

Susan G. Gordon. *B.A., Mount Holyoke, 1946; M.D., Howard, 1950*
Doris L. Wethers. *B.S., Queens (New York), 1958; M.D., Yale, 1952*

Associate Clinical Professors

Helen Rodriguez-Trias. *B.S., Puerto Rico, 1957; M.D., 1960*
Phillip R. Ziring. *B.A., New York University, 1958; M.D., 1962*

Assistant Professor

Elena B. Klein. *M.D., State Institute of Medicine and Pharmacy (Rumania), 1953; Ph.D., Institute of Microbiology (Rumania), 1972*

Assistant Professors of Clinical Pediatric Psychology

Madeline W. Appell. *B.A., Queens, 1962; M.A., 1963*
Jeanne Brooks-Gunn. *B.A., Connecticut College, 1969; Ed.M., Harvard, 1970; Ph.D., Pennsylvania, 1975*
Nathan A. Fox. *B.A., Williams, 1970; Ph.D., Harvard, 1975*

Assistant Clinical Professors

Dennis Allendorf. *B.S., Georgetown, 1965; M.D., New York Medical College, 1970*
Anastasios Anastasiades. *M.D., Athens, 1950*
Robert Antar. *B.S., Brooklyn, 1965; M.D., Louvain (Belgium), 1970*
Saroj Sahgal Bakshi. *M.B., B.S., Government Medical College (India), 1960; M.D., Institute of Postgraduate Medical Education and Research (India), 1969*
Chhaya Chakrabarti. *B.Sc., Calcutta, 1963; M.D., 1969*
Herbert I. Cohen. *M.D., Johns Hopkins, 1949*
Gisela T. Dalrymple. *M.D., Woman's Medical College of Pennsylvania, 1951*
Ragabardial R. Dwarka. *M.D., Hebrew (Jerusalem), 1969*
Donald L. Feinberg. *B.A., Hamilton, 1945; M.D., New York University, 1949*
Joan M. Flanigan. *B.A., Case Western Reserve, 1962; M.D., 1966*
Erwin Friedman (Pediatric Psychology). *Ph.D., Peter (Budapest), 1949*
Fadel M. Hochroth. *B.A., Louisville, 1953; M.D., 1957*
Harry Kimmel. *B.A., St. Andrews (Bucharest), 1940; M.D., Bucharest, 1949*
Katherine Lodyjensky. *M.D., Montreal, 1943*
Neil Lombardi (also Neurology). *B.A., M.D., Boston, 1967*
Rogelio F. Lucas. *A.A., University of the East (Manila), 1956; M.D., 1961*
Anthony F. Michel. *M.D., Faculté de Médecine (Haiti), 1956*
Mona Milstein. *B.A., State University of New York (Binghamton), 1965; M.D., State University of New York (Buffalo), 1969*
Richard Mones. *B.A., Brooklyn, 1967; M.D., New York Medical College, 1971*
Marianne Schwob. *B.A., Bryn Mawr, 1952; M.D., Harvard, 1956*
Farrokh Shahrivar. *M.D., Tehran, 1966*
Shantha Subramaniam. *M.B., B.S., Madras (India), 1962*
Lucy M. Swift. *B.A., Barnard, 1948; M.D., Columbia, 1953*
Phienjit Tantibhedhyangkul. *M.D., Mahido (Thailand), 1959; Ph.D., Columbia, 1971*
Sayenna A. Uduman. *D.M.E.S., Kilpauk (India), 1963; M.D., Madras, 1966*
Ranjeet Virdi. *B.S., India, 1960; M.D., 1960*
Elizabeth Watkins. *B.A., Randolph-Macon Women's College, 1947; M.D., Columbia, 1951*

ASSOCIATES IN CLINICAL PEDIATRICS
Ricarda L. Baum, M.D.
Renata Frenkel, M.D.
Diane Hochlerin, M.D.
Nancy Holahan, M.D.
Ruth E. Kessler, M.D.
Kusum Khanna, M.B.B.S.
Priscilla W. Lewis, M.D.
Edward A. Nichols, M.D.
Flora Ramirez, M.D.
Thelma Verano-Santiago, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS
Robert William Amler, M.D.
Carlois Emilio Arzeno, M.D.
William R. Brown, M.D.
Myrna Aquino Damien, M.D.
Morel Duverseau, M.D.
Luis Antonio Goyco, M.D.
Robert L. Hite, M.D.
Thomas H. Hyatt, Jr., M.D.

INSTRUCTORS (*continued*)
Christodoulos Iordanou, M.D.
Richard Gary Merkler, M.D.
Melanie Rivenzon, M.D.
Nathan E. Saint-Amand, M.D.
Michael Glen Teitel, M.D.
Steven Tsoutsouras, M.D.

Pharmacology

David Hosack Professor and Chairman

Brian F. Hoffman. *A.A., Princeton, 1943; M.D., Long Island College of Medicine, 1947*

Professors

J. Thomas Bigger, Jr. (also Medicine). *B.A., Emory, 1955; M.D., Georgia, 1960*
Frederick G. Hofmann. *B.A., Michigan, 1943; Ph.D., Harvard, 1952*

Norman Kahn (also Dental and Oral Surgery). *B.A., Columbia, 1954; D.D.S., 1958; Ph.D., 1964*
Harold C. Neu (also Medicine). *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
Shih-Hsun Ngai (also Anesthesiology). *M.D., National Central (Nanking), 1944*
Michael R. Rosen (also Pediatrics). *B.A., Wesleyan, 1960; M.D., State University of New York (Downstate), 1964*
Wilbur H. Sawyer (Gustavus and Louise Pfeiffer Professor). *B.A., Harvard, 1942; M.D., 1945; Ph.D., 1950*
Hsueh-Hwa Wang. *M.D., National Central (Nanking), 1946*
Andrew L. Wit. *B.S., Bates, 1963; Ph.D., Columbia, 1968*

Adjunct Professors

Paul F. Cranefield. *Ph.B., Wisconsin, 1946; Ph.D., 1951; M.D., Albert Einstein, 1964*
Jurg Schneider. *M.D., Basle (Switzerland), 1945*
Sidney Spector (also Anesthesiology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*
Robert M. Weiss. *B.S., Franklin and Marshall, 1957; M.D., State University of New York (Downstate), 1960*

Associate Professor

Joseph Graziano (in Pediatrics). *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*

Adjunct Associate Professors

Marvin R. Blumenthal. *B.S., Michigan, 1946; M.D., Columbia, 1949*
Martin M. Winbury. *B.S., Long Island, 1940; M.S., Maryland, 1942; Ph.D., New York University, 1954*

Senior Research Associate

Lance L. Simpson. *B.A., Vanderbilt, 1966; Ph.D., California, 1969*

Assistant Professors

Larry Crawshaw (also Rehabilitation Medicine). *B.A., California (Los Angeles), 1964; Ph.D., California (Santa Barbara), 1970*
Kenneth Dangman. *Ph.D., Columbia, 1977*
Peter Danilo, Jr. *Ph.D., Columbia, 1974*
Daniel J. Goldberg. *Ph.D., Yale, 1974*
Jaya Haldar. *M.Sc., Calcutta, 1961; Ph.D., London, 1966*
Douglas N. Ishii (in the Cancer Center). *Ph.D., Wisconsin, 1959*
Lou Katz (in the Cancer Center). *Ph.D., Wisconsin, 1959*
Tuan Duc Pham (also Anatomy). *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M.Phil., Ph.D., Columbia, 1975*
Richard B. Robinson. *Ph.D., Illinois, 1975*

Adjunct Assistant Professors

Edward B. Kirsten. *B.S., Fairleigh Dickinson, 1962; M.S., New York University, 1966; Ph.D., City College, 1969*
Lawrence Tilley. *D.V.M., Iowa State, 1969*

RESEARCH ASSOCIATE
Samuel M. Ross, B.E.E. (Electrical Engineering)

SENIOR STAFF ASSOCIATES
Arline Albala, B.A.
Pamela Garlick, B.A.

STAFF ASSOCIATES
Ofer Binah, Ph.D.
Penelope Altman Boyden, Ph.D.
Florence Chan, M.D.
William Eng, B.S.
Irinia Golyakhovsky, Ph.D.
Kenneth W. Hewett, Ph.D.

STAFF ASSOCIATES (*continued*)
Arthur Hoffmeyer
Iris Nemhauser, M.A.
Jorg Dietrich Schoenen, M.D.

LECTURER
Kwang Soo Lee, M.D.

Physiology

John C. Dalton Professor and Chairman

John V. Taggart (also Medicine). *M.D., Southern California, 1940*

Professors

Shu Chien. *M.B., National Taiwan, 1954; Ph.D., Columbia, 1957*
Eric R. Kandel (also Psychiatry). *B.A., Harvard, 1952; M.D., New York University, 1956*
Irving Kupfermann (also Psychiatry). *Ph.D., Chicago, 1964*
William L. Nastuk. *B.S., Rutgers, 1939; Ph.D., 1945*
Mero Nocenti. *B.A., West Virginia, 1951; M.S., 1952; Ph.D., Rutgers, 1955*
John P. Reuben (in Neurology). *B.A., Grinnell, 1954; M.S., Rochester, 1956; Ph.D., Florida, 1959*
David Schachter. *B.S., New York University, 1946; M.D., 1949*
James H. Schwartz (also Neurology). *B.S., Columbia, 1954; M.D., New York University, 1959; Ph.D., Rockefeller, 1964*

Associate Professors

Qais Al-Awqati (also Medicine). *M.B., Ch.B., Baghdad, 1962*
Martin Blank. *B.S., College of the City of New York, 1954; Ph.D., Columbia, 1957; Ph.D., Cambridge, 1959*
Louis J. Cizek. *B.S., Fordham, 1937; M.D., Columbia, 1941*
Raimond Emmers. *B.A., East Texas Baptist, 1953; M.A., North Carolina, 1955; Ph.D., Syracuse, 1958*
Michel Ferin (in Obstetrics and Gynecology). *M.D., Louvain, 1964*
Jorge Fischbarg (in Ophthalmology). *M.D., Buenos Aires, 1962; Ph.D., Chicago, 1971*
Claude P. J. Ghez (also Neurology). *B. Sc., Geneva, 1960; M.D., Harvard, 1964*

Senior Research Associates

John D. Koester. *B.A., Wooster (Ohio), 1965; Ph.D., Columbia, 1971*
Shunichi Usami. *M.B., Kyoto Prefectural University of Medicine (Japan), 1940; Ph.D., 1957*

Assistant Professors

Kung-Ming Jan. *M.B., National Taiwan, 1967; Ph.D., Columbia, 1971*
Herbert H. Lipowsky. *M.S., Polytechnic Institute of Brooklyn, 1968; Ph.D., California (San Diego), 1975*
Hugh Nellans (also Medicine). *B.A., Lawrence, 1967; Ph.D., Yale, 1971*

RESEARCH ASSOCIATES
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Jack T. Alexander, B.S.
Ronald D. Carlin, Ph.D.
Szloma Kowarski, M.A.
Mary M. L. Lee, Ph.D.

STAFF ASSOCIATES
Dean Handley, Ph.D.
Robert G. King, B.Sc.
Lily M. Soo, Ph.D.

Psychiatry

Professor of Clinical Psychiatry and Acting Chairman

Sidney Malitz. *B.S., Tulane, 1943; M.D., Chicago Medical School, 1946*

At New York State Psychiatric Institute

Professors

Eric R. Kandel (also Physiology). *B.A., Harvard, 1952; M.D., New York University, 1956*
Donald F. Klein. *B.A., Colby, 1947; M.D., State University of New York (Downstate), 1952*
Irving Kupferman (also Physiology). *Ph.D., Chicago, 1964*
Edward J. Sachar (Laurence Kolb Professor). *B.A., Harvard, 1952; M.D., Pennsylvania, 1956*
Robert L. Spitzer. *B.A., Cornell, 1953; M.D., New York University, 1957*
Robert J. Weiss (also Medicine). *B.A., George Washington, 1947; M.D., Columbia, 1951*

Professor of Biochemistry

Maurice M. Rapport. *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*

Professors of Medical Psychology

Samuel Sutton. *Ph.D., Chicago, 1955*
William N. Thetford. *Ph.D., Chicago, 1949*

Professor of Neuropathology

Leon Roizin. *B.A., State Lyceum (Bessarabia), 1930; M.D., Royal University (Milan), 1936*

Professor of Social Sciences

Bruce Dohrenwend (also Public Health). *B.A., Columbia, 1950; Ph.D., Cornell, 1955*

Professors of Clinical Psychiatry

Gene G. Abel. *M.D., Iowa, 1965*
H. Donald Dunton (in Pediatrics). *M.D., Rochester, 1945*
L. Erlenmeyer-Kimling (in Human Genetics). *B.S., Columbia, 1957; Ph.D., 1960*
Ronald R. Fieve. *B.A., Wisconsin, 1952; M.D., Harvard, 1955*
Archie R. Foley (in Public Health). *B.A., Queens (Canada), 1943; M.D., C.M., 1947; M.S., Columbia, 1962*
Lothar Gidro-Frank. *M.D., Columbia, 1948*
Alexander H. Glassman. *B.A., Illinois, 1956; M.D., 1958*
Murray Glusman. *B.S., New York University, 1934; M.D., 1938*

Barry K. Gurland. *M.B., Ch.B., Capetown, 1955*
Joseph Jaffe. *B.A., Columbia, 1944; M.D., New York University, 1947*
Donald S. Kornfeld. *B.S., Franklin and Marshall, 1950; M.D., Yale, 1954*
John D. Rainer (in Human Genetics). *M.D., Columbia, 1951*
James H. Ryan. *B.A., Yale, 1952; M.D., Harvard, 1956*
David Shaffer (also Pediatrics). *M.D., London, 1961*
John Weber. *B.A., Duke, 1939; M.D., Yale, 1943*

Professor of Clinical Psychiatric Epidemiology

Thomas S. Langner (in Public Health). *B.A., Harvard, 1948; Ph.D., Columbia, 1954*

Professors of Clinical Psychology

Anke Ehrhardt. *Ph.D., Dusseldorf, 1969*
Rachel Gittleman-Klein. *B.A., College of the City of New York, 1957; Ph.D., Columbia, 1966*

Clinical Professors

Willard Gaylin. *B.A., Harvard, 1947; M.D., Case Western Reserve, 1951*
Roger MacKinnon. *M.D., Columbia, 1950*
Lionel Ovesey. *B.A., California (San Francisco), 1937; M.D., 1941*
Ethel Person. *B.A., Chicago, 1956; M.D., New York University, 1960*

Clinical Professor of Medical Psychology

Rita Rudel. *B.S., College of the City of New York, 1946; M.A., 1949; Ph.D., New York University, 1955*

Associate Professor of Dentistry

Austin H. Kutscher. *B.A., New York University, 1945; D.D.S., Columbia, 1946*

Associate Professor of Medical Psychology

Jacques Rutschmann. *D. Sc., Geneva, 1956*

Associate Professor of Neuropathology

Mavis Kaufman. *M.D., New York Medical College, 1944*

Associate Professor of Public Health (Sociomedical Sciences)

Denise Kandel. *Ph.D., Columbia, 1960*

Associate Professor of Clinical Neurobiology and Behavior

Vincent F. Castellucci. *B.A., Laval, 1960; B.Sc., 1964; Ph.D., Washington (St. Louis), 1968*

Associate Professor of Clinical Neurochemistry

Hadassah Tamir. *M.S., Hebrew (Jerusalem), 1955; Ph.D., Israel Institute of Technology, 1959*

Associate Professor of Clinical Pathology

Liselotte Graf. *M.D., Vienna, 1937*

Associate Professors of Clinical Psychiatry

Ruth Bennett. *Ph.D., Columbia, 1962*
Jerrold S. Maxmen. *B.A., Wayne State, 1963; M.D., 1967*
Frederic M. Quitkin. *B.A., Princeton, 1958; M.D., State University of New York (Downstate), 1962*

Associate Professors of Clinical Psychology

Judith V. Becker. *M.S., Eastern Washington State, 1968; Ph.D., Southern Mississippi, 1975*
W. Crawford Clark. *Ph.D., Michigan, 1958*
Jean Endicott. *Ph.D., Columbia, 1967*
Heino F.L. Meyer-Bahlburg. *Ph.D., Dusseldorf, 1970*

Associate Professors of Clinical Psychopharmacology

Thomas Cooper. *M.A., Fairleigh Dickinson, 1970*
James M. Perel. *Ph.D., New York University, 1964*

Associate Clinical Professors

Paul A. Bradlow. *M.D., Hahnemann, 1946*
Richard G. Druss. *B.A., Yale, 1955; M.D., Columbia, 1959*
Gloria Faretra. *M.D., Georgetown, 1952*
Kenneth Frank. *M.S., Columbia, 1964; Ph.D., 1967*
Richard A. Gardner. *M.D., State University of New York (Downstate), 1956*
Rodman Gilder, Jr. *M.D., Columbia, 1944*
Stanley Heller. *B.A., Yale, 1956; M.D., Columbia, 1960*
Winslow R. Hunt. *B.A., M.A., Chicago, 1950; M.D., Columbia, 1958*
Samuel Klagsbrun. *B.A., College of the City of New York, 1955; B.R.E., Jewish Theological Seminary; M.D., Chicago Medical School, 1962*
Alexander N. Levay. *M.D., Rochester, 1957*
Robert S. Liebert. *B.S., Syracuse, 1951; M.A., Clark, 1956; M.D., New York University, 1960*
Mary C. MacKay. *M.D., Dalhousie (Canada), 1959*
Donald I. Meyers. *B.S., Franklin and Marshall, 1946; M.D., Jefferson, 1950*
Helen C. Meyers. *B.A., Hunter, 1945; M.D., New York University, 1949*
John F. O'Connor. *B.S., Columbia, 1948; M.D., State University of New York (Downstate),* 1952
Seymour Post. *M.D., New York University, 1947*
Daniel Shapiro. *M.D., Illinois, 1945*
Leonard M. Sheehy. *B.A., Harvard, 1960; M.D., McGill, 1968*
Henry I. Spitz. *B.A., Lafayette (Pennsylvania), 1961; M.D., New York Medical College, 1965*
Bluma Swerdloff. *D.S.W., Columbia, 1960*
Ralph N. Wharton. *M.D., Columbia, 1957*

Associate Clinical Professor of Psychiatric Social Work

Winifred Winikus. *M.S., Columbia, 1949*

Assistant Professors

Craig H. Bailey (aiso Anatomy). *B.A., Lehigh, 1967; M.S., 1969; Ph.D., 1973*
Samuel M. Schacher (also Biochemistry). *B.A., Columbia, 1971; M.A., 1974; Ph.D., 1976*
Klaudiusz Weiss (also Biochemistry) (in Dentistry). *M.A., Warsaw, 1967; Ph.D., State University of New York (Stony Brook), 1973*

Assistant Professors of Biochemistry

George Alexander. *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Herbert L. Meltzer. *B.S., Long Island, 1942; Ph.D., Columbia, 1950*

Assistant Professor of Clinical Neurobiology

Thomas J. Carew. *M.A., California (Riverside), 1967; Ph.D., 1970*

Assistant Professors of Clinical Psychiatry

Gregory Asnis. *B.S., Dickinson College, 1968; M.D., Hahnemann, 1972*
Miron Baron. *M.D., Tel Aviv, 1972*
Jerry Finkel. *B.A., Columbia, 1957; M.D., 1961*
David V. Forrest. *B.A., Princeton, 1960; M.D., Columbia, 1964*
David Friedman. *B.A., Queens (New York), 1965; Ph.D., City University of New York, 1972*
Abby Joy Fyer. *B.A., Reed, 1969; M.D., New York University, 1973*
Madelyn S. Gould. *B.S., City University of New York, 1972; M.A., Princeton, 1974; M.P.H., Columbia, 1976; M. Phil., 1980*
Laurence L. Greenhill. *B.A., Columbia, 1963; M.D., Albert Einstein, 1967*
Kenneth Greenspan. *M.D., Albert Einstein, 1963*
Frederick Kass. *B.A., Harvard, 1966; M.D., Johns Hopkins, 1970*
Michael R. Liebowitz. *B.A., Yale, 1965; M.D., 1969*
Patrick J. McGrath. *B.S., Seton Hall, 1970; M.D., Columbia, 1974*
Joaquim Puig-Antich. *B.A., LaSalle Bonanova (Spain), 1960; M.D., Barcelona (Spain), 1967*
Ronald O. Rieder. *B.A., Harvard, 1964; M.D., 1968*
Steven Paul Roose. *B.A. Harvard, 1970; M.D., Mt. Sinai, 1974*
Lawrence Sharpe. *D.P.M., London, 1961*
Andrew Skodol. *B.A., Yale, 1967; M.D., Pennsylvania, 1971*
Bernard T. Walsh. *B.A., Princeton, 1967; M.D., Harvard, 1972*
Daniel T. Williams. *B.A., Columbia, 1965; M.D., Cornell, 1969*
Stuart C. Yudofsky. *B.A., New York University, 1966; M.D., Baylor, 1970*

Assistant Professors of Clinical Psychology

Edward Scott Charles. *B.A., City University of New York, 1965; M.A., 1968; M.A., New School for Social Research, 1971*
Miriam Cohen. *B.A., Michigan, 1961; M.S., Pittsburgh, 1964; Ph.D., 1967*
Donald J. Dillon. *Ph.D., Fordham, 1955*
Helen Hanesia. *B.S., State University of New York (Buffalo), 1953; M.A., Columbia, 1961; Ed.D., 1966*
Donald E. Hutchings (also Pediatrics). *Ph.D., Columbia, 1965*
Maureen Kanzler. *B.A., Hunter, 1938; M.A., New York University, 1940; M.S., Hunter, 1959; Ph.D., Fordham, 1967*
Stephen E. Karpiak. *Ph.D., Fordham, 1972*
Dennis D. Kelly. *Ph.D., Columbia, 1966*

Dolores Kreisman. *B.A., Barnard, 1953; Ph.D., Columbia, 1969*
Cornelis Stokman. *Ph.D., Columbia, 1967*

Assistant Professor of Clinical Psychiatric Social Work

Janet B. Williams. *B.S., Tufts, 1969; M.S., Southeastern Massachusetts, 1972; M.S.W., Columbia, 1974*

Assistant Professors of Clinical Social Sciences

Alexander Askenazy. *Ph.D., Columbia, 1962*
Muriel Hammer. *Ph.D., Columbia, 1961*
Carol C. Schwartz. *B.S., Columbia, 1962; Ph.D., Yale, 1969*

Assistant Professor of Clinical Social Work

Nettie Terestman. *M.S.W., Columbia, 1940; D.S.W., 1963*

Assistant Clinical Professors

Syed Abdullah. *M.A., Calcutta, 1961; M.B., 1962*
Morton J. Aronson. *B.A., Temple, 1944; M.D., 1947*
John A. Atchley. *M.D., Columbia, 1944*
Athanasia Balkoura. *M.D., Athens, 1960*
Amiram Barkai. *M.Sc., Hebrew (Jerusalem), 1963; Ph.D., 1970*
Leah Beck. *M.D., Woman's Medical College of Pennsylvania, 1943*
Christian C. Beels. *B.A., Rochester, 1960; M.D., Harvard, 1963*
Robinette Bell. *B.A., Smith College, 1951; M.D., Columbia, 1962*
Stephen L. Bennett. *B.S., Queens (New York), 1949, M.D., Cornell, 1953*
Anne E. Bernstein. *B.A., Barnard, 1958; M.D., Albert Einstein, 1962*
Stanley Bone. *B.S., Massachusetts Institute of Technology, 1970; M.D., Mt. Sinai, 1974*
Paul F. Califano. *B.A., Adelphi, 1950; M.D., State University of New York (Downstate), 1954*
Robert J. Campbell. *M.D., Columbia, 1948*
Ian Alberto Canino. *B.S., Georgetown, 1966; M.D., Puerto Rico, 1970*
William J. Chambers. *B.A., Princeton, 1967; M.D., Tufts, 1972*
Harvey R. Chertoff. *B.A., Columbia, 1962; M.D., Einstein, 1966*
Stanley J. Coen. *B.A., Columbia, 1958; M.D., 1962*
Frances Cohen. *B.A., Harvard, 1971; M.D., Columbia, 1975*
Max P. Cohen. *M.D., New York Medical College, 1947*
Louise Coleman. *M.D., Southern California, 1948*
Francine Cournos. *B.S., City College (New York), 1967; M.D., New York University, 1971*
DeWitt L. Crandell. *M.D., Arkansas, 1955*
Barbara H. De Betz. *M.D., Miami, 1970*
Zira De Fries. *M.D., New York Medical College, 1942*
Leonard Diamond. *B.A., Tulane, 1949; M.D., State University of New York (Downstate), 1953*
Richard A. Dickes. *B.A., Columbia, 1963; M.D., Albert Einstein, 1967*
Robert M. Elvolve. *B.A., Michigan, 1962; M.D., Chicago, 1966*
Charles F. Entelis. *M.D., Virginia, 1974*
James W. Flax. *B.A., Antioch, 1971; M.D., Minnesota, 1974*
Gerald I. Fogel. *M.D., Michigan, 1962*
Bruce Forester. *B.A., Dartmouth, 1961; M.D., Columbia, 1965*
Eugene A. Friedberg. *M.D., Buffalo, 1958*
Bimalendu Ganguly. *M.B., B.S., Calcutta Medical College (India), 1964*
Lee R. Gardner. *B.A., Barnard, 1955; M.D., Columbia, 1959*

Myron R. Gershberg. *B.A., Cornell, 1955; M.A., 1956; M.D., Buffalo, 1960*
Iona Ginsburg. *B.A., Vassar, 1953; M.D., Columbia, 1957*
Richard J. Glavin. *B.A., Cornell, 1951; M.D., Rochester, 1955*
Ana B. Glick. *B.A., Bennington, 1958; M.D., New York Medical College, 1963*
Robert Glick. *B.A., Yale, 1962; M.D., Columbia, 1966*
Edwin Goldstein (in Pediatrics). *B.A., Brooklyn, 1952; M.D., Union (Albany), 1958*
Charles Goodstein. *B.A., Columbia, 1958; M.D., Pittsburgh, 1962*
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Dezider Grunberger (also Biochemistry) (in the Institute of Cancer Research). *M.Sc., Technical (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*
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Senior Research Associate

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Epidemiology

Professors

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Thomas A. Sherwood, M.P.H.
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SENIOR STAFF ASSOCIATE
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Tropical Medicine

Professors

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Associate Professors

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Faculty Members Not Affiliated with Specific Divisions

Professor

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Adjunct Professor

Myron Brin (Public Health Nutrition). *B.S., Cornell, 1947; M.N.S., 1948; Ph.D., Harvard, 1951*

Assistant Professors of Anthropology

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Assistant Professor of Nursing

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Lecturers in All Divisions

Kenneth F. Adamec, M.S.
George H. Adams, M.S.
Frederick D. Alley, M.D.
Allan C. Anderson, M.H.A.
Lenore M. Appenzeller
Peter Baglio, Sc.M.
Richard A. Berman, M.B.A., M.H.A.
Robert Boyar
Roy Brown, M.A.
Carlos Caguiate, M.P.H.
Martin Cherkasky, M.D.
Irene J. Clark, M.P.H.
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Alvin J. Conway, M.S.
Jean B. Cropper, M.P.H.
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Rinaldo A. Ferrer, M.D.
Andrew C. Fleck, M.D.
Thomas J. Foley, M.S.
Stephen L. Forstenser, M.S.
Herbert Friedman, M.B.A.
Richard C. Friedman, M.D.
Steven Friedman, M.D.
Nicholas Frudenberg
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Robert Galton, Ph.D.
Gary Gambuti, M.P.A.
George Goldberg, M.B.A.
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Margaret Griesmer, B.S.
Margaret T. Grossi, M.D.
David Harris, M.D.
Frank W. Hays, M.B.A.
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Leonard Bodner, M.D.
Judith A. Buckley, M.D.
Gregory M. Carsen, M.D.
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Manuel Fernandez. *M.D., Coimbra (Portugal), 1956*
Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*
Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

ASSOCIATES IN CLINICAL UROLOGY

Arumbi P. Subramaniam, M.D.
Pellegrino J. Tozzo, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Philip C. Cea, M.D.
Harry S. David, M.D.

INSTRUCTORS (*continued*)

Alfred F. Fretz, M.D.
Waleed G. Maloof, M.D.
Constantine Photos, M.D.
Joseph D. Putignano, M.D.
Alexander Sotiropoulos, M.D.

INSTRUCTORS (*continued*)

Rudolph D. Talarico, M.D.
James W. Vastola, M.D.

ASSISTANTS IN CLINICAL UROLOGY

Abas Rezvani, M.D.
Damir Velcek, M.D.

First-Year Postgraduate Appointments: Class of 1981

Adams, Roberta H. *Children's Hospital Medical Center, Boston, Massachusetts.* Pediatrics
Aiken, Brenda. *Harlem Hospital Center, New York, New York.* Medicine
Aldea, Gabriel S. *The New York Hospital, New York, New York.* Surgery
Altshuler, Steven L. *Overlook Hospital, Summit, New Jersey.* Flexible
Amador, Jorge L. *Montefiore Hospital, Bronx, New York.* Pediatrics
Apfelbaum, Mark A. *Presbyterian Hospital, New York, New York.* Medicine
Appleton, Abraham T. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Surgery
Aranow, Robert B. *New England Deaconess Hospital, Boston, Massachusetts.* Surgery
Arildsen, Ronald C. *Navy Regional Medical Center, Bethesda, Maryland.* Medicine.
Auletta, Maria. *Somerset Hospital, Somerville, New Jersey.* Family Practice
Ausubel, Kalman. *Montefiore Hospital, Bronx, New York.* Medicine
Bauman, Phillip A. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Surgery
Beane, Susan J. *Medical College of Virginia, Richmond, Virginia.* Medicine
Beitz, Julie G. *Roger Williams General Hospital, Providence, Rhode Island.* Medicine
Broom, Michael J. *Hartford Hospital, Hartford, Connecticut.* Surgery
Butler, Annette L. *Harlem Hospital Center, New York, New York.* Medicine
Byrne, Jeffrey M. *University of Massachusetts Coordinated Programs, Worcester, Massachusetts.* Family Practice
Cagliostro, Stephen. *Presbyterian Hospital, New York, New York.* Surgery
Capaldo, Maria E. *Harbor-UCLA Medical Center, Torrance, California.* Obstetrics and Gynecology
Carson, JoAnn. *Bronx Municipal Hospital Center, Bronx, New York.* Pediatrics
Castiglione, Charles L. *Hartford Hospital, Hartford, Connecticut.* Surgery
Chandra, Elizabeth S. *Cedars-Sinai Medical Center, Los Angeles, California.* Medicine
Cohen, Paul J. *Massachusetts General Hospital, Boston, Massachusetts.* Pathology
Cohen, Ron. *University of Virginia Medical Center, Charlottesville, Virginia.* Medicine
Collymore, Victor A. *Mount Sinai Hospital, New York, New York.* Medicine
Colon-Linares, Juan. *Baylor College Affiliated, Houston, Texas.* Obstetrics and Gynecology
Cotto, Sonia. *North Carolina Memorial Hospital, Chapel Hill, North Carolina.* Family Practice
Cutillo, Robert P. *Boston City Hospital, Boston, Massachusetts.* Medicine
Degreef, Gustav. *Bronx Municipal Hospital Center, Bronx, New York.* Psychiatry
Dhungel, Rajiv U. *L.A. County-U.S.C. Medical Center, Los Angeles, California.* Ophthalmology
Diao, Edward. *Beth Israel Hospital, Boston, Massachusetts.* Surgery
Diaz, Angela. *Mount Sinai Hospital, New York, New York.* Pediatrics
Dick, Alison B. *Cleveland Clinic, Cleveland, Ohio.* Flexible
Drucker, Elizabeth A. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Drury, Bernard J. *University of California (Davis) Medical Center, Sacramento, California.* Surgery
Ehrlich, Carol M. *Boston City Hospital, Boston, Massachusetts.* Medicine
Elliott, Deirdre D. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Psychiatry
Esposito, Robert M. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Surgery
Feit, David L. *Presbyterian Hospital, New York, New York.* Medicine

Feld, Randy J. *North Shore University Hospital, Manhasset, New York.* Medicine
Flatow, Evan L. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Surgery
Freedman, Susan D. *Boston City Hospital, Boston, Massachusetts.* Medicine
Freyberg, Christopher W. *Charity Hospital, New Orleans, Louisiana.* Medicine
Gendler, Ellen C. *Lenox Hill Hospital, New York, New York.* Medicine
Gertler, Jonathan P. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery
Glantz, Sanford D. *Mary Imogene Bassett Hospital, Cooperstown, New York.* Surgery
Goldberg, David M. *Presbyterian Hospital, New York, New York.* Medicine
Goldstein, Nannette. *Overlook Hospital, Summit, New Jersey.* Flexible
Golub, Robert M. *McGaw Medical Center, Chicago, Illinois.* Medicine
Gravallese, Ellen M. *Brigham & Women's Hospital, Boston, Massachusetts.* Medicine
Grossi, Eugene A. *New York University Medical Center, New York, New York.* Surgery
Grunberg, Eva L. *Montefiore Hospital, Bronx, New York.* Pediatrics
Hayes, Dewleen G. *Christ Hospital, Cincinnati, Ohio.* Medicine
Holubowitch, Edward J. *University of Virginia Medical Center, Charlottesville, Virginia.* Family Practice
Hresko, Michael T. *New England Deaconess Hospital, Boston, Massachusetts.* Surgery
Katzman, Michael. *Case Western Reserve University Hospitals of Cleveland, Cleveland, Ohio.* Medicine
Keefe, Bernadette. *Presbyterian Hospital, New York, New York.* Surgery
Kellman, Howard D. *Harlem Hospital Center, New York, New York.* Medicine
Kirby, Mathis A. *Grady Memorial Hospital, Atlanta, Georgia.* Surgery
Kleiman, Neal S. *Baylor College Affiliated, Houston, Texas.* Medicine
Kutscher, Martin L. *St. Christopher's Hospital, Philadelphia, Pennsylvania.* Pediatrics
Kwon, Peter H., Jr. *Cedars-Sinai Medical Center, Los Angeles, California.* Surgery
Landaw, Irene S. *Children's Hospital, Philadelphia, Pennsylvania.* Pediatrics
Landy, Harold S. *Montefiore Hospital, Bronx, New York.* Pediatrics
Lanzara, Barbara L. *Harlem Hospital Center, New York, New York.* Medicine/Flexible
Le, Xuan Ha T. *Children's Hospital of Northern California, Oakland, California.* Pediatrics
Lee, Timothy L. *Long Beach Veterans Administration Hospital, Long Beach, California.* Medicine
Lehmann, Harold P. *Presbyterian Hospital, New York, New York.* Pediatrics
Levin, Marc S. *Barnes Hospital Group, St. Louis, Missouri.* Medicine
Levine, Alice C. *N.Y.U. Veterans Administration Hospital, New York, New York.* Medicine
Lipman, Steven P. *University of Colorado Affiliated Hospitals, Denver, Colorado.* Surgery
Louard, Rita J. *Boston City Hospital, Boston, Massachusetts.* Medicine
Lubka, Rhonda. *L.A. County-U.S.C. Medical Center, Los Angeles, California.* Surgery
Ludwig, Robert L. *Lenox Hill Hospital, New York, New York.* Medicine
Markowitz, Steven B. *Montefiore Hospital, Bronx, New York.* Medicine
Marshall, Mitchell H. *Montefiore Hospital, Bronx, New York.* Medicine
Miro, Claudio L. *St. Barnabas Medical Center, Livingston, New Jersey.* Obstetrics and Gynecology
Moss, Barbara A. *Waterbury Hospital, Waterbury, Connecticut.* Medicine
Moy, Larry. *St. Francis Hospital, Hartford, Connecticut.* Surgery
Muraszko, Karin M. *Presbyterian Hospital, New York, New York.* Surgery
Murphy, Stephen G. *University of Massachusetts Coordinated Programs, Worcester, Massachusetts.* Surgery
Muschel, Michael J. *Presbyterian Hospital, New York, New York.* Medicine
Nercessian, Ohannes A. *Washington University Affiliated, St. Louis, Missouri.* Surgery
Nerenstone, Stacy R. *Beth Israel Hospital, Boston, Massachusetts.* Medicine

Oppedisano, Carlyn A. *Presbyterian Hospital, New York, New York.* Pediatrics
Orland, Steven M. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* Surgery
Ozick, Lisa A. *Beth Israel Hospital, New York, New York.* Medicine
Patsos, Theodore J. *St. Elizabeth's Hospital, Boston, Massachusetts.* Surgery
Pellicone, John T. *Montefiore Hospital, Bronx, New York.* Medicine
Peress, Richard E. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Surgery
Perofsky, Howard J. *SUNY-Upstate Medical Center, Syracuse, New York.* Surgery
Petchler, Janet C. *Yale-New Haven Medical Center, New Haven, Connecticut.* Pediatrics
Raby, Khether E. *Presbyterian Hospital, New York, New York.* Medicine
Regan, Raymond F. *New England Deaconess Hospital, Boston, Massachusetts.* Medicine
Richmond, Kenneth H. *St. Vincent's Hospital, New York, New York.* Surgery
Rifkin, Terry P. *North Shore University Hospital, Manhasset, New York.* Obstetrics and Gynecology
Rogers, David M. *Mount Sinai Hospital, New York, New York.* Surgery
Rosenfield, Howard T. *Menninger Foundation, Topeka, Kansas.* Psychiatry
Rosenthal, Robert B. *San Francisco General Hospital, San Francisco, California.* Family Practice
Ross, Richard S. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine
Rozmaryn, Leo M. *Montefiore Hospital, Bronx, New York.* Surgery
Rudolph, Michael A. *Mount Zion Hospital, San Francisco, California.* Surgery
Sabir, Rafiq. *Harlem Hospital Center, New York, New York.* Flexible
Sax, Frederic L. *The New York Hospital, New York, New York.* Medicine
Scantlebury, Velma P. *Harlem Hospital Center, New York, New York.* Surgery
Seely, Ellen W. *Brigham & Women's Hospital, Boston, Massachusetts.* Medicine
Shah, Dipti V. *Presbyterian Hospital, New York, New York.* Medicine
Shear, Michael P. *University of Southern Florida Affiliated Hospitals, Tampa, Florida.* Medicine
Shookster, Linda A. *Rhode Island Hospital, Providence, Rhode Island.* Medicine
Siegel, Robert D. *Barnes Hospital Group, St. Louis, Missouri.* Medicine
Sisti, Michael. *Presbyterian Hospital, New York, New York.* Surgery
Small, Peter A. *New England Deaconess Hospital, Boston, Massachusetts.* Medicine
Smithy, William B. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Surgery
Sobelson, Gary A. *Duke University Medical Center, Durham, North Carolina.* Family Practice
Solomon, Perry H. *Temple University Hospital, Philadelphia, Pennsylvania.* Surgery
Speert, Peter K. *St. Joseph Mercy Hospital, Ann Arbor, Michigan.* Flexible
Stein, Neil H. *Presbyterian Hospital, New York, New York.* Medicine
Stern, Frederic A. *Virginia Mason Hospital, Seattle, Washington.* Flexible
Stoler, Joan M. *New England Medical Center, Boston, Massachusetts.* Pediatrics
Stone, Gary C. *Boston City Hospital, Boston, Massachusetts.* Medicine
Teitelbaum, Joanne. *St. Vincent's Hospital, New York, New York.* Psychiatry
Thea, Donald M. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Valdes, Martin. *Presbyterian Hospital, New York, New York.* Medicine
Vaughan, Luke M. *Stanford University Hospital, Stanford, California.* Orthopedic Surgery
Voutsas, Andrea K. *North Shore University Hospital, Manhasset, New York.* Medicine
Wagman, Robert D. *Toronto General Hospital, Toronto, Canada.* Surgery
Warren, Susan E. *The New York Hospital-Westchester Division, White Plains, New York.* Psychiatry

Wasko, Margery L. *Rainbow Babies and Children's Hospital, Cleveland, Ohio.* Pediatrics
Weidenbaum, Mark. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Surgery
Weinstein, Beth. *Yale-New Haven Medical Center, New Haven, Connecticut.* Psychiatry
Weiss, Michael J. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine
Widman, Lawrence E. *Johns Hopkins Hospital, Baltimore, Maryland.* Medicine
Williams, John V. *University of Miami Affiliated Hospitals, Miami, Florida.* Medicine
Wilson, Scott N. *Salem Hospital, Salem, Massachusetts.* Medicine
Wiseman, Gloria D. *New York University Medical Center, New York, New York.* Pediatrics
Wollack, Jan B. *Presbyterian Hospital, New York, New York.* Pediatrics
Wood, Charles M. *University of Oregon Health Sciences Center, Portland, Oregon.* Medicine
Wu, Gloria. *Mount Sinai Hospital, New York, New York.* Surgery
Yepes, Martha C. *Children's Hospital, Philadelphia, Pennsylvania.* Pediatrics
Young, Grace M. *Children's Hospital National Medical Center, Washington, D.C.* Pediatrics
Younger, David S. *Montefiore Hospital, Bronx, New York.* Medicine
Zahl, Kenneth J. *Baylor College Affiliated, Houston, Texas.* Pediatrics
Zinberg, Joel M. *Mount Sinai Hospital, New York, New York.* Surgery
Zinberg, Jonathan. *Presbyterian Hospital, New York, New York.* Medicine
Zollo, Kenneth A. *Children's Hospital National Medical Center, Washington, D.C.* Pediatrics

Student Roster: Class of 1982

Abrams, Elaine Janine Brooklyn, N.Y. *B.S., Princeton, 1978*
Absatz, Michael Glenn Plainview, N.Y. *B.E.S., Johns Hopkins, 1978*
Adler, Frederick William New York, N.Y. *B.S., Columbia, 1978*
Aldoroty, Robert Arthur Bayside, N.Y. *B.A., Pennsylvania, 1976; M.A., Columbia, 1978*
Almquist, Robert Earl Bergen, N.Y. *B.S., Yale, 1978*
Amchin, Jess David Farmingdale, N.Y. *B.A., Cornell, 1978*
Andrew, Susan Louise Easthampton, Mass. *Sc.B., Brown, 1976*
Aranoff, Jonathan Neil Brooklyn, N.Y. *B.A., Columbia, 1978*
Beekman, Karen Press Brooklyn, N.Y. *B.A., Barnard, 1978*
Bellin, Eran Yitzchak Brooklyn, N.Y. *B.A., Harvard, 1978*
Bernstein, Guy Thomas Short Hills, N.J. *B.A., Brown, 1978*
Bezier, Jeffrey Lee Peshtigo, Wi. *B.A., Princeton, 1978*
Birkenbach, Mark Philip Kildeer, Il. *B.A., Harvard, 1978*
Blackwell, Thomas Keith Greenville, S.C. *B.S., Duke, 1978*
Blades, Edmond William Melrose, Mass. *B.A., Harvard, 1978*
Boruchoff, Susan Elise Newton Centre, Ma. *B.A., Radcliffe, 1977*
Brauser, Steven Donald Woodbury, N.Y. *B.A., Harvard, 1978*
Brenner, Gail Monsey, N.Y. *B.S., City College, 1978*
Brigham, Steven Chase Toledo, Oh. *B.S., Massachusetts Institute of Technology, 1978*
Brooks, Robert Louis Sharpsburg, Md. *B.S., Massachusetts Institute of Technology, 1974; M.S., Maryland, 1976; Ph.D., 1978*
Brown, Florence M. Evanston, Il. *B.A., Columbia, 1978*
Bryk, Eli New York, N.Y. *B.A., Columbia, 1978*
Buchness, Mary Ruth Catonsville, Md. *B.A., Harvard, 1978*
Burns, Elisa Eve Bethpage, N.Y. *B.A., Colgate, 1978*
Cammisa, Frank P. Waterbury, Ct. *B.S., Tufts, 1978*
Campbell, Susan Elizabeth New York, N.Y. *B.A., Barnard, 1975*
Cantor, Michael Cary Massapequa, N.Y. *B.A., Harvard, 1978*
Cherup, Lori Lyn Pittsburgh, Pa. *B.A., Princeton, 1976*

Chua, Streamson C. Kingston, N.Y. *B.A., Johns Hopkins, 1978*
Clair, Darren Francis New York, N.Y. *B.A., Princeton, 1976*
Cody, William Collins Mountain Lakes, N.J. *B. A., Dartmouth, 1978*
Cohen, Jeffrey Lewis Forest Hills, N.Y. *B.A., Johns Hopkins, 1978*
Daly, James Savannah, Ga. *B.A., St. Leo (Florida), 1978*
Danso, Alex New York, N.Y. *B.A., Harvard, 1976*
Dash, Greg I. Cedarhurst, N.Y. *B.A., Princeton, 1978*
del Alcazar, Carlos Oscar North Bergen, N.J. *B.A., Columbia, 1978*
Delfs, Richard Michael Tucson, Az. *B.A., Arizona, 1976*
Devlin, Michael James Bardonia, N.Y. *B.A., Princeton, 1978*
Derby, James Alan Schuylerville, N.Y. *B.S., SUNY (Albany), 1978*
Deri, John New York, N.Y. *B.A., Columbia, 1973*
Dermody, Terence Shawn Ithaca, N.Y. *B.S., Cornell, 1978*
Downey, Susan E. New York, N.Y. *B.A., Smith, 1978*
Doyle, Werner Karim Port Jefferson Station, N.Y. *B.S., SUNY (Stony Brook), 1978*
Durand, David Bradley Rochester, N.Y. *B.A., Dartmouth, 1978*
Easton, Jonathan New York, N.Y. *B.A., Columbia, 1978*
Endow, Curtis S. Stockton, Ca. *B.A., California (Berkeley), 1977*
Endrizzi, Donald Peter Brooklyn, N.Y. *B.A., Columbia, 1978*
Fabiano, Fredric Boston, Ma. *B.S., Boston, 1978*
Feinberg, Richard Ira Woodmere, N.Y. *B.A., Trinity, 1977*
Fiero, Thomas Patrick Brooklyn, N.Y. *B.A. Columbia, 1977*
Fletcher, Christopher Wallace Wellesley, Ma. *B.A., Wesleyan, 1978*
Formichella, Donna Jean Bridgeport, Ct. *B.S., Providence, 1978*
Frank, David Lawrence Meadowbrook, Pa. *B.A., Williams, 1978*
Gelbfish, Gary Alexander Brooklyn, N.Y. *B.S., Brooklyn, 1978*
Gilchrist, Ian Charles Chappaqua, N.Y. *B.A., Dartmouth, 1978*
Gomez, William New York, N.Y. *B.S., Polytechnic Institute of Brooklyn, N.Y., 1976*
Grant, Gail Patrice Charleston, S.C. *B.A., Yale, 1978*
Greenberg, Steven Marc Flushing, N.Y. *B.A., Harvard, 1978*
Gresalfi, Thomas John Lake Grove, N.Y. *B.S., SUNY (Stony Brook), 1978*
Griswold, Jonathan DeWitt Stratford, Ct. *B.S., M.S., Yale, 1978*
Harmon, Valerie Lorraine Philadelphia, Pa. *B.A., Brown, 1978*
Harrington, William Neelis Great Neck, N.Y. *B.A., Columbia, 1974*
Hart, Craig Parsippany, N.J. *B.A., Pennsylvania, 1973*
Honig, Peter K. Bellerose, N.Y. *B.A., Columbia, 1978*
Hutt, Douglas Allen Irvington, N.Y. *B.A., Columbia, 1978*
Jabs, Kathy Lee Bristol, Ct. *B.S., Trinity, 1978*
Jackness, Emily New York, N.Y. *B.A., Barnard, 1978*
Karasik, Pamela Ellen Old Westbury, N.Y. *B.A., Barnard, 1978*
Kates, Mandes Roger New Haven, Ct. *B.A., Princeton, 1974; Ph.D., Yale, 1978*
Kessler, Paul David New York, N.Y. *B.S., Pittsburgh, 1976*
Kim, Sandra Joan Pearl River, N.Y. *B.A., State University of New York (Stony Brook), 1978*
King, Dennis K. Daytona Beach, Fl. *B.A., Middlebury, 1978*
Knoll, Charles L. Brooklyn, N.Y. *B.S., Brooklyn, 1978*
Krauss, Eugene Steven Old Westbury, N.Y. *B.S., Columbia, 1978*
Krug, Joseph Hoffmann Englewood, N.J. *B.A., Johns Hopkins, 1978*
Levens, David Jon Newton Centre, Ma. *B.S., Massachusetts Institute of Technology, 1978*
Levenson, Risa Catherine New York, N.Y. *B.A., Radcliffe, 1978*
Li, Suzanne C. Roslyn, N.Y. *B.S., Yale, 1978*
Licht, Jonathan Daniel Jackson Heights, N.Y. *B.S., SUNY (Stony Brook), 1978*
Lidofsky, Steven D. Brooklyn, N.Y. *B.A., Columbia, 1975*
Linder, Barbara L. New York, N.Y. *B.S., Cornell, 1975*
Lobel, Leslie Israel New York, N.Y. *B.A., Columbia, 1978*

Low, Julie Ann Belmont, Ma. *B.A., Rochester, 1975*
Lustbader, Ian Jay New York, N.Y. *B.S., City College, 1978*
Lynn, Richard Brian Great Neck, N.Y. *B.A., Columbia, 1978*
McCormick, Paul Christian Rockville, Md. *B.A., Columbia, 1978*
Marchese, Michael John New York, N.Y. *B.A., Rutgers, 1974*
Margolis, Steven Fred Rego Park, N.Y. *B.A., New York University, 1974*
Markowitz, John New York, N.Y. *B.A., Columbia, 1976; M.A., 1978*
Martin, Steven Carey Plainview, N.Y. *B.A., Harvard, 1978*
Marzuk, Peter Michael New York, N.Y. *Sc.B., Brown, 1978*
Mastropolo, Rosalie Mary Eastchester, N.Y. *B.S.N., Rochester, 1976*
Mazzocchi, Annmarie Bronx, N.Y. *B.S., Manhattan, 1978*
Mehalek, Karen Edith Huntington Station, N.Y. *B.S., Cornell, 1978*
Mellstrom, Mark Stanley North Mankato, Mn. *B.A., Carleton, 1978*
Mercurio, Mark Randolph Ridgefield, Ct. *B.A., Princeton, 1978*
Mirski, Anna Marie Brooklyn, N.Y. *B.S., St. John's, 1978*
Mitchell, Alfred Ernest Staten Island, N.Y. *B.A., Lafayette, 1978*
Moffat, Gertrude Seidel Cold Spring Harbor, N.Y. *B.A., Brown, 1977*
Monasky, Mark Stephen Binghamton, N.Y. *B.A., SUNY (Potsdam), 1978*
Montgomery, Michael O'Neill New York, N.Y. *B.S., McGill, 1973*
Moscona, Anne Chicago, Il. *B.A., Radcliffe, 1978*
Muller, Adrienne Louise Bronx, N.Y. *B.A., Brown, 1978*
Norton, Janet E. Philadelphia, Pa. *B.A., Pennsylvania, 1978*
Nussbaum, Monte Jay Flushing, N.Y. *B.S., Columbia, 1978*
Oesterling, Joseph Edwin Greensburg, In. *B.A., Columbia, 1978*
Olson, Stephen Eric Cooperstown, N.Y. *B.A., Hamilton, 1978*
Park, William New York, N.Y.
Paul, Edward Mark Hicksville, N.Y. *B.A., Harvard, 1978*
Pennoyer, Marguerite Anne Portland Me. *B.A., Smith, 1978*
Perez, Wilfredo De La C. Miami, Fl. *B.A., Harvard, 1978*
Pfeffer, Deborah Lynn New York, N.Y. *B.A., Barnard, 1978*
Philips, Mark Reid Scarsdale, N.Y. *B.A., Harvard, 1978*
Plotycia, Steven Michael Eggertsville, N.Y. *B.S., SUNY (Buffalo), 1978*
Porder, Joseph Bernard New York, N.Y. *B.A., Bennington, 1978*
Price, Helen L. Summit, N.J. *B.S., Yale, 1978*
Quarmby, Robert Altamont, N.Y. *B.S., SUNY (Stony Brook), 1974; M.S., Rensselaer Polytechnic Institute, 1978*
Quartararo, Christopher Huntington, N.Y. *B.A., Columbia, 1978*
Rayport, Steven G. Perrysburg, Oh. *B.A., Harvard, 1975*
Rini, Frank John New York, N.Y. *B.A., New York University, 1974; M.A., Columbia, 1976; M. Phil., 1977; Ph.D., 1978*
Robbins, Peter Howard Fairlawn, N.J. *B.A., Hamilton, 1978*
Robbins, Philip Alan Great Neck, N.Y. *B.S., Massachusetts Institute of Technology, 1978*
Rodriguez, Jaime Brooklyn, N.Y. *B.A., Columbia, 1978*
Rodriguez, Rolando Francisco Weehawken, N.J. *B.A., Columbia, 1978*
Rosenblatt, Marc A. New York, N.Y. *B.A., Harvard, 1978*
Rosenzweig, Seth Edward Freeport, N.Y. *B.S., Yale, 1978*
Roth, Philip New York, N.Y. *B.A., Columbia, 1975*
Rottman, Jeffrey Nathan Berkeley, Ca. *B.A., Princeton, 1976*
Rubenfeld, Marian R. New York, N.Y. *B.A., Barnard, 1976*
Ruzal, Carrie Brenda Brooklyn, N.Y. *B.A., Princeton, 1978*
Salamone, Ronald Jerry East Brunswick, N.J. *B.S., Stanford, 1977*
Sanchez-Lluberas, Jorge A. Santurce, P.R. *B.S., University of Puerto Rico, 1978*
Schlaff, Anthony Lewis New York, N.Y. *B.A., Yale, 1978*
Schneider, Peter Andrew Hamburg, N.Y. *B.A., Amherst, 1977*
Schulder, Michael Brooklyn, N.Y. *B.A., Columbia, 1978*
Sealfon, Stuart C. Neponsit, N.Y. *B.A., Princeton, 1978*

Sehgal, Evan David Chevy Chase, Md. *B.A., Harvard, 1978*
Semrad, Carol Elizabeth New York, N.Y. *B.A., Wisconsin, 1978*
Shaffer, David Great Neck, N.Y. *B.A., Yale, 1978*
Shaffer, Nathan New York, N.Y. *B.A., Yale, 1975*
Sharp, Barbara Lea San Francisco, Ca. *B.A., Yale, 1976*
Sheinbaum, Roy Jonathan Woodmere, N.Y. *B.Sc., McGill, 1978*
Simkowitz, Philip New York, N.Y. *B.S., Beloit, 1975*
Sklar, Jeffrey Alan Laurelton, N.Y. *B.S., SUNY (Stony Brook), 1978*
Skowron, Gail East Northport, N.Y. *B.S., Muhlenberg, 1978*
Smith, Andre Leo New York, N.Y. *B.A., Williams, 1978*
Smith, Mary Camden, N.Y. *B.S., Houghton, 1978*
Stevenson, Ellen Marie New York, N.Y. *B.A., Barnard, 1977*
Strongin, Jonathan David New York, N.Y. *M.Phil, Columbia, 1976*
Sullivan, John Keane New York, N.Y. *B.A., Holy Cross, 1969; J.D., Fordham, 1972*
Sultan, Mark Brooklyn, N.Y. *B.A., Brandeis, 1978*
Suser, Ezra Saul Hastings-on-Hudson, N.Y. *B.A., Columbia, 1974*
Tong, Dominic Jun Fai Honolulu, Hi. *B.S., Hawaii (Monoa), 1978*
Usatine, Richard Philip Nanuet, N.Y. *B.S., Williams, 1978*
Veenema, Kenneth Roy Glenrock, N.J. *B.S., Cornell, 1977*
Vita, Joseph Andrew Katonah, N.Y. *B.S., Yale, 1978*
Wasserman, Hal Stuart Springfield, N.J. *B.A., Johns Hopkins, 1978*
Wellisz, Tadeusz Zbigniew New York, N.Y. *B.A., Chicago, 1977*
Whelan, Richard Lawrence Franklin Square, N.Y. *B.S., Fordham, 1978*
Wolff, David Marc New York, N.Y. *B.S., SUNY (Albany), 1977*
Wolfson, Steven Jay Valley Stream, N.Y. *B.S., Yale, 1978*
Yannopoulos, Aris Garden City, N.Y. *B.A., Harvard, 1977*
Yorke, Eric Robert Brooklyn, N.Y. *B.S., SUNY (Stony Brook), 1978*
Zeralsky, Sandra Joan Pearl River, N.Y. *B.A., SUNY (Stony Brook), 1978*

Student Roster: Class of 1983

Aldea, Peter A. New York, N.Y. *B.A., Columbia, 1977*
Alonso, Jose Jr. Astoria, N.Y. *B.A., Columbia, 1979*
Anderson, Rolf Leon Suffern, N.Y. *B.S., Harvard, 1979*
Arliss, Jeffrey James Locust, N.J. *B.S., Vermont, 1978*
Bar, Michael Henry New York, N.Y. *B.A., Johns Hopkins, 1979*
Baran, Syma Deborah Levittown, N.Y. *B.A., Barnard, 1979*
Basner, R. David New York, N.Y. *B.A., City College (New York), 1974*
Bauer, R. David Elmhurst, N.Y. *B.A., Columbia, 1979*
Beck, Marc Lloyd New Hyde Park, N.Y. *B.A., Clark, 1979*
Ben-Zvi, Jeffrey S. Brooklyn, N.Y. *B.S., Brooklyn, 1979*
Black, Alexander Charlton Wellesley, Ma. *B.S., Harvard, 1979*
Bobella, Stephen Kurt Hackensack, N.J. *B.A., Drew, 1979*
Bonner, Matthew Kip Georgetown, Ct. *B.A., Cornell, 1979*
Boos, Stephen Charles Huntington Sta., N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Boyle, Allyson Bass Berkeley, Ca. *B.A., California (Berkeley), 1975*
Boyle, Thomas Hempstead, N.Y. *B.S., State University of New York (Stony Brook), 1977*
Breidbart, Scott Eric Scarsdale, N.Y. *B.A., Yale, 1976*
Brill, David Alan New York, N.Y. *B.A., Princeton, 1979*
Brungraber, Margaret R. Lewisburg, Pa. *B.A., Princeton, 1979*
Bush, James William Cherry Hill, N.J. *B.A., Rutgers, 1979*
Cahill, Peter duPont Philadelphia, Pa. *B.A., Pennsylvania, 1979*
Camacho, Victor Emanuel Bronx, N.Y. *B.S., Columbia, 1979*

Camerino, Vicki Jean Larchmont, N.Y. *B.A., Dartmouth, 1978*
Camuto, Patricia Mary New Hyde Park, N.Y. *B.A., Hofstra, 1976*
Carpenter, Richard Owen Cedarhurst, N.Y. *B.S., Duke, 1979*
Caselli, Maria Milagros Bergenfield, N.J. *B.A., Columbia, 1979*
Caselli, Richard John Bayside, N.Y. *B.A., Columbia, 1979*
Chalfin, Laura B. New York, N.Y. *B.A., SUNY (Stony Brook), 1970*
Chen, William Kuang-Yu New York, N.Y. *B.A., Columbia, 1978*
Christopher, Kenneth Bronx, N.Y. *B.A., Pennsylvania, 1978*
Davidson, Peter Killip Rochester, N.Y. *B.A., Haverford, 1977*
Davis, Maris R. Oswego, N.Y. *B.A., Bryn Mawr, 1979*
Davitz, Michael Andrew New York, N.Y. *B.A., Yale, 1978*
Desser, Terry Susan Beechhurst, N.Y. *B.A., Princeton, 1979*
Dillon, John Joseph Yorktown Hts., N.Y. *B.S., Massachusetts Institute of Technology, 1978*
Donnenberg, Michael Seth Levittown, N.Y. *B.S., SUNY (Albany), 1979*
Duralde, Xavier A. East Pointe, Ga. *B.A., Harvard, 1979*
Dushay, Kevin Maier Fayetteville, N.Y. *B.A., Brown, 1979*
Eaton, Bradford Hunter Pelham, N.Y. *B.A., Dartmouth, 1979*
Erly, William Kenneth Short Hills, N.J. *B.A., Haverford, 1978*
Eskenazi, Loren Beth New York, N.Y. *B.A., Pennsylvania, 1978*
Feind, Carl Robert Alpine, N.J. *B.S., Antioch, 1979*
Felix, Alan David New Hyde Park, N.Y. *B.A., Haverford, 1979*
Fiorito, Joseph John New York, N.Y. *B.A., Columbia, 1979*
Fisher, Margaret Elizabeth Haddonfield, N.J. *B.A., Princeton, 1979*
Florakis, George James Yonkers, N.Y. *B.A., Columbia, 1979*
Freilich, David Ira Brooklyn, N.Y. *Brooklyn College*
Friedman, David Paul Brooklyn, N.Y. *B.A., Columbia, 1979*
Gaines, Alan David Randolph, Ma. *B.S., Massachusetts Institute of Technology, 1979*
Garbowit, David Labe Pittsfield, Ma. *B.S., Union, 1979*
Genecin, Paul Baltimore, Md. *B.A., Princeton, 1977*
Glatt, Aaron Eli Brooklyn, N.Y. *B.A., Yeshiva, 1979*
Gliedman, Paul R. Wallkill, N.Y. *B.S., Manhattan, 1979*
Goldberg, Neal Benjamin Hartsdale, N.Y. *B.A., Johns Hopkins, 1979*
Goldman, Myla P. Bronx, N.Y. *B.A., Pennsylvania, 1979*
Goldschmidt, Howard Zvi Flushing, N.Y. *B.A., Columbia, 1979*
Goldstein, Michael D. Smithtown, N.Y. *B.S., SUNY (Stony Brook), 1979*
Gomez, Yvonne Brooklyn, N.Y. *B.A., Princeton, 1979*
Gonzalez, Christopher Lewis Claremont, Ca. *B.A., Pitzer, 1979*
Gonzalez, Victoria Mary Claremont, Ca. *B.A., California State (San Francisco), 1979*
Green, Nancy Sue Wabon, Ma. *B.S., Tufts, 1979*
Gutowski, Teddy Forest Hills, N.Y. *B.A., Queens, 1979*
Hall, Walter Allan Falls Church, Va. *B.A., Columbia, 1979*
Hanau, Lawrence Huto Bayside, N.Y. *B.A., Columbia, 1979*
Harris, David Alan New York, N.Y. *B.S., Yale, 1976*
Hawke, Mary Wetherill Southampton, N.Y. *B.A., Chicago, 1976*
Hirschfield, Steven I. New York, N.Y. *B.A., Columbia, 1972*
Ingram, David Lloyd Somerset, N.J. *B.A., Columbia, 1979*
Joffe, Mark D. Cherry Hill, N.J. *B.A., Princeton, 1978*
Johnston, Maria Milagros Bergenfield, N.J. *B.A., Barnard, 1979*
Jones, Leon D. Rome, N.Y. *B.A., Dartmouth, 1979*
Kalb, Thomas Heller Palm Beach, Fl. *B.A., Princeton, 1979*
Kamer, Russell Scott New Rochelle, N.Y. *B.A., Williams, 1979*
Kastelman, James Steven Cranford, N.J. *B.S., Princeton, 1979*
Keller, Wendy A. New York, N.Y. *B.A., Barnard, 1975*
Klapper, Robert C. Far Rockaway, N.Y. *B.A., Columbia, 1979*
Koehler, Susan Ellen Clarence, N.Y. *B.A., Mt. Holyoke, 1979*

Konecky, Alan Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Kriger, Alberto Isaac Rio Piedras, P.R. *B.A., Brandeis, 1979*
Landry, Donald William Cambridge, Ma. *B.S., Lafayette, 1975*
Landzberg, Joel Serge Whitestone, N.Y. *B.A., Columbia, 1979*
Lederman, Seth Michael New York, N.Y. *B.A., Princeton, 1979*
Letsou, George Vasilios Lowell, Ma. *B.A., Harvard, 1979*
Linfield, Louis S. II San Francisco, Ca. *B.A., Harvard, 1977*
Loomis, Karen Jay White Plains, N.Y. *B.S., Yale, 1977*
Lopez, Rafael Roberto New York, N.Y. *B.A., Columbia, 1979*
Lowy, Israel Forest Hills, N.Y. *B.A., Princeton, 1977*
Luppescu, Neal Edwin Roslyn, N.Y. *B.A., Dartmouth, 1979*
Lustick, Martin Ross Watertown, N.Y. B.A., Cornell, 1978
Lytton, William Winzer Scarsdale, N.Y. *B.A., Harvard, 1978*
McCord, Mary Marshall New York, N.Y. *B.A., Williams, 1978*
Macfarlane, Michael Thomas New York, N.Y. *B.A., Long Island (C.W. Post), 1975*
Mackey, Steven Lee South Columbus, Oh. *B.A., Columbia, 1976*
Maloney, William Joseph Warren, N.Y. *B.A., Stanford, 1979*
Mandel, Michael New York, N.Y. *B.A., Columbia, 1979*
Manley, John C. North Port, N.Y. *B.S., California Institute of Technology, 1977*
Matathias, Daniel J. Long Island City, N.Y. *B.A., Columbia, 1979*
Matos, Sergio E. New York, N.Y. *B.S., City College, 1979*
Melfi, Robert Joseph Wood-Ridge, N.J. *B.S., Creighton, 1979*
Munro, Virginia Schaefer New York, N.Y. *B.S., Columbia, 1979*
Neuberg, Gerald Walter Tenafly, N.J. *B.A., Princeton, 1979*
Okun, Alexander Lawrence New York, N.Y. *B.S., Yale, 1979*
Ostrow, Steven Mark Baldwin, N.Y. *B.A., Brown, 1979*
Paek, In-Bok Flushing, N.Y. *B.A., Barnard, 1979*
Pastor, Patricia Camuto Rochester, N.Y. *B.A., Hofstra, 1976*
Pearl, Michael Lawrence Southfield, Mi. *B.S., Michigan, 1979*
Perkins, Archibald Simon Williamstown, Ma. *B.A., Williams, 1979*
Perlmutter, Jeffrey Alan Huntington, N.Y. *B.S., Yale, 1979*
Peterson, Mark William Fort Collins, Co. *B.S., Colorado State, 1979*
Pierson, Richard Norris III Englewood, N.J. *B.A., Princeton, 1978*
Pollak, Emil Martin Jr. Old Tappan, N.J. *B.A., Dartmouth, 1979*
Pollak, Jeffrey Scott New York, N.Y. *B.A., Columbia, 1979*
Quinn, Brian James Wantagh, N.Y. *B.S., State University of New York (Stony Brook), 1979*
Quinn, Thomas Joseph Wantagh, N.Y. *B.S., SUNY (Stony Brook), 1979*
Rampil, Ira Jay Flushing, N.Y. *B.E.S., SUNY (Stony Brook), 1975*
Randolph, Paula Ann Bronx, N.Y. *B.S., Harvard, 1979*
Retikas, Anthony Demetrios Akron, Oh. *B.A., Johns Hopkins, 1979*
Rice, Louis Bernard Garden City, N.Y. *B.A., Harvard, 1977*
Rich, Thomas Jonathan Flourtown, Pa. *B.S., Bucknell, 1979*
Ring, Wendy Susan Coral Gables, Fl. *B.S., Yale, 1979*
Roberts, William Gary Purchase, N.Y. *B.A., Harvard, 1979*
Rochester, Carolyn Lee Charlottesville, Va. *B.A., Smith, 1979*
Rosenthal, Jonathan Harry New York, N.Y. *B.A., Harvard, 1973*
Rovit, Adam John Scarsdale, N.Y. *B.A., Michigan, 1979*
Sacks, Andrew Jay New York, N.Y. *B.A., New College, 1975*
Sacks, Evan Hilary Flushing, N.Y. *B.A., Brown, 1979*
Saver, Barry Gordon Cambridge, Ma. *B.S., Yale, 1976*
Schlesinger, Gail Michele Roslyn, N.Y. *B.A., Pennsylvania, 1978*
Schoifet, Scott David Somerset, N.J. *B.A., Cornell, 1979*
Shapiro, Matthew Scott Hewlett, N.Y. *B.A., Cornell, 1979*
Simpson, Joseph Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Smires, Harvey Edward Bellerose, N.Y. *B.A., Harvard, 1979*

Smith, Ann Elizabeth Northport, N.Y. *B.A., Washington, 1979*
Smith, Judith Wilson Greenwich, Ct. *B.A., Princeton, 1979*
Spriegel, John Roberts Evanston Il. *B.S.E., Princeton, 1979*
Starin, Lawrence Robert Spring Valley, N.Y. *Sc.B., Brown, 1979*
Tannenbaum, Gary Alan Brooklyn, N.Y. *B.A., Dartmouth, 1979*
Thoron, Louisa New York, N.Y. *B.A., Colorado, 1968*
Vagelos, Randall Herodotus Watchung, N.J. *B.A., Harvard, 1979*
Van de Wiele, Barbara M. Alpine, N.J. *B.A., Smith, 1977*
Wang, Paul Johnson Indianapolis, In. *B.A., Harvard, 1979*
Wang, Timothy Cragin St. Louis, Mo. *B.A., Williams, 1979*
Wasserman, Marcia Sue Syosset, N.Y. *B.S., Cornell, 1973*
Weinberger, Michael Laurence Ardsley, N.Y. *B.A., Clark, 1979*
Weinstein, Lee Scott Woodmere, N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Weinstock, Martin New York, N.Y. *B.A., Williams, 1977*
Weissman, Jane Lisa New York, N.Y. *B.A., Yale, 1977*
Whitley, Barbara Ellen Queens Village, N.Y. *B.A., Syracuse, 1971*
Widom, Barbara Santa Cruz, Ca. *B.A., Cornell, 1979*
Wilkens, James Burton Toledo, Oh. *B.S., Ohio State, 1979*
Wilner, Philip Jonathan Jamaica Estates, N.Y. *B.A., Columbia, 1979*
Wimpfheimer, Miriam Jane New York, N.Y. *B.A., Yale, 1975*
Winter, Eric Herbert New York, N.Y. *B.A., Harvard, 1979*
Wissler, Richard Norris Canandaigua, N.Y. *B.A., Hamilton, 1974*
Yolowitz, Greg Alan Spring Valley, N.Y. *B.A., Wesleyan, 1979*
Yu, Leonard Tobey New York, N.Y. *B.A., Amherst, 1977*
Zigelman, Charles Z. Woodmere, N.Y. *B.A., Queens, 1979*

Student Roster: Class of 1984

Adkins, Elijah Stanton III Salisbury, Md. *B.A., Princeton, 1980*
Alland, David New York, N.Y. *B.A., Columbia, 1980*
Alonso, Barbara Ann New York, N.Y. *B.A., Barnard, 1979*
Arato, Michael Plainview, N.Y. *B.S., Union, 1980*
Ashmead, Duffield Philadelphia, Pa. *B.A., Princeton, 1980*
Baez, Ana Luisa New York, N.Y. *B.S., City College, 1980*
Bannister, Kyra Heather Georgetown, Ct. *B.A., Vermont, 1980*
Barasch, Jonathan Matthew New York, N.Y. *B.A., Dartmouth, 1980*
Belisle, James Thompson Babylon, N.Y. *B.S., Cornell, 1979*
Bell, Robin Ellen Ardsley, N.Y. *B.A., Brown, 1975*
Berkower, Alan Stewart Bronx, N.Y. *B.A., Middlebury, 1974*
Booker, Gail Michele Jamaica, N.Y. *B.A., Princeton, 1980*
Boschi, Alessandro Sebastian Port Chester, N.Y. *B.A., Columbia, 1980*
Brem, Rachel Frydman Brookline, Ma. *B.A., Brandeis, 1979*
Brieff, David Ben Melville, N.Y. *B.A., SUNY (Stony Brook), 1980*
Brittis, Mary Ellen Yonkers, N.Y. *B.S., Columbia, 1980*
Brown, Michael Carlvan Yorktown Heights, N.Y. *B.A., Dartmouth, 1979*
Cardenosa, Gilda New York, N.Y. *B.S., Marymount, 1979*
Chak, Amitabh Morgantown, W.V. *B.A., Yale, 1978*
Chan, Stephen Bronx, N.Y. *B.A., Harvard, 1979*
Chietero, Michael Plainview, N.Y. *B.S., Fordham, 1980*
Christopher, Kenneth New York, N.Y. *B.A., Pennsylvania, 1978*
Clain, Michael Russell Great Neck, N.Y. *B.A., Brown, 1980*
Coburn, Kenneth Doyle West Hempstead, N.Y. *B.A., Brown, 1980*
Cohen, Sally Eisenberg Ridgewood, N.J. *B.A., Goucher, 1964*
Constantine, Sandra Mequon, Wi. *B.A., Harvard, 1980*
Desser, Terry S. Whitestone, N.Y. *B.A., Princeton, 1979*

Di Franco, Matthew Joaquin Santa Cruz, Ca. *B.A., California (Santa Cruz), 1979*
Draga, Aspasia E. Malba, N.Y. *B.A., Barnard, 1980*
Egnor, Michael Robert Catskill, N.Y. *B.A., Columbia, 1980*
Fallon, Regis Francis Pittsburgh, Pa. *B.A., Harvard, 1980*
Fayter, Judith Ann Staten Island, N.Y. *B.S., Pace, 1978*
Fithian, Donald Coburn Bridgeton, N.J. *B.A., Dartmouth, 1980*
Florin, Cynthia Ann New York, N.Y. *B.S., Grinnell, 1975*
Ford, Jean Guillaume Long Island City, N.Y. *B.A., Columbia, 1978*
Freeman, Phillip Sanford New York, N.Y. *B.A., Princeton, 1975*
Gallay, Brian James White Plains, N.Y. *B.A., Columbia, 1980*
Gewirtz, George Robert Bronx, N.Y. *B.A., Columbia, 1979*
Goldberg, Mark Paul Chicago, Il. *B.A., Harvard, 1980*
Goldstein, Jeffrey Alan Southfield, Mi. *B.A., Harvard, 1980*
Gordon, Christopher P. Hollis, N.H. *B.A., Dartmouth, 1980*
Goyal, Alok New York, N.Y. *B.S., Columbia, 1980*
Graff, Wayne Brian Merrick, N.Y. *B.S., Adelphi, 1980*
Graham, Jeffrey Scott Summit, N.J. *B.A., Williams, 1980*
Greenbaum, Linda Ellen New York City, N.Y. *B.A., Harvard, 1980*
Guthrie, Ellen Hobson Hilton Head Island, S.C. *B.A., Colorado, 1980*
Haspel, Kenneth Lewis West Hartford, Ct. *B.A., Pennsylvania, 1980*
Hibbard, Claire Alexandra New York, N.Y. *B.A., Barnard, 1979*
Hsu, Ho-Wen Timonium, Md. *B.A., Princeton, 1979*
Hyll, Marsha Karin Green Brook, N.J. *B.A., Princeton, 1975*
Ivey, Louis Albert Silver Springs, Md. *B.A., Princeton, 1980*
Jackson, Byron A. Shreveport, La. *B.A., New York University, 1980*
Jeevanandam, Valluvan M. New Milford, N.J. *B.A., Columbia, 1980*
Johnson, Gregory Kent Chestertown, N.Y. *B.A., Dartmouth, 1979*
Johnston, Peter Shivers Brooklyn, N.Y. *B.A., Cornell, 1969*
Jules, Kethy Marie Elmhurst, N.Y. *B.S., Marymount, 1980*
Kao, Peter Nicholas New York, N.Y. *B.A., Harvard, 1979*
Karlin, Scott Marc Greenlawn, N.Y. *B.A., Wesleyan, 1980*
Kaye, Katherine Staten Island, N.Y. *B.A., Princeton, 1980*
Kazim, Michael Riverdale, N.Y. *B.A., Columbia, 1980*
Kellogg, Collins Frederick Croghan, N.Y. *B.A., Hamilton, 1977*
Kim, Anthony Hyoung Queens, N.Y. *B.A., Yale, 1980*
Kim, Kami Albany, N.Y. *B.A., Harvard, 1980*
Kimball, Robert Owen Geneva, N.Y. *B.S., Cornell, 1979*
Krongrad, Arnon New York, N.Y. *B.A., Columbia, 1980*
Ku, Andrew Bergenfield, N.J. *B.A., Harvard, 1980*
Lang, Thomas Philip Rochester, N.Y. *B.A., Harvard, 1980*
LaScala, Carlo Paul Port Jefferson, N.Y. *B.S., SUNY (Stony Brook), 1980*
Lattimer, Douglas Gary New York, N.Y. *B.A., Columbia, 1975*
Leibenhaut, Mark Harris Oceanside, N.Y. *B.A., Princeton, 1980*
Levin, Neil Chevy Chase, Md. *B.S.E.S., Tufts, 1980*
Lewis, Allison Elizabeth Menlo Park, Ca. *B.S.E., Princeton, 1980*
Liberman, Laura Newton, Ma. *B.A., Harvard, 1980*
Lombardo, Gregory Thomas New York, N.Y. *B.A., Columbia, 1968*
Love, Karen Anita Queens Village, N.Y. *B.A., Cornell, 1980*
Luyando, Yvonne New York, N.Y. *B.A., Fordham, 1980*
Ma, Averil I. Thornwood, N.Y. *B.A., Harvard, 1980*
McDonagh, Kevin T. Bellerose, N.Y. *B.A., Columbia, 1980*
Magnes, Jeffrey New York, N.Y. *B.S., Yale, 1975*
Mahon, John Henry Huntington, N.Y. *B.S., Notre Dame, 1980*
Markowitz, Arlene Helen Scarsdale, N.Y. *B.A., Wellesley, 1980*
Mathews, Donald Marshall Schenectady, N.Y. *B.A., Harvard, 1980*
Miller, Steven Zane Rego Park, N.Y. *B.A., Columbia, 1980*

Milrod, Barbara Louise New York, N.Y. *B.S., Yale, 1979*
Modic, Frank Edward Scotia, N.Y. *B.S., Cornell, 1980*
Moss, William John Demarest, N.J. *B.A., Wesleyan, 1980*
Mulvey, Kevin Patrick San Francisco, Ca. *B.S., San Francisco, 1980*
Neustein, Steven Mark West Orange, N.J. *B.S., Massachusetts Institute of Technology, 1980*
Nimkin, Katherine New York, N.Y. *B.A., Cornell, 1978*
Nordli, Douglas Ray Melville, N.Y. *B.S., Haverford, 1980*
Odrich, Marc Geoffrey Riverdale, N.Y. *B.A., Columbia, 1980*
O'Keeffe, Richard Michael, Jr. Weston, Ma. *B.A., Dartmouth, 1980*
Olsen, Janet Louise Queens Village, N.Y. *B.A., Vassar, 1978*
Olson, Eric Jon Chadds Ford, Pa. *B.A., Princeton, 1980*
Oquendo, Maria Antonia Guaynabo, P.R. *B.S., B.A., Tufts, 1980*
Palma, James New York, N.Y. *City College of New York, 1980*
Pawlowski, Ann Margaret Lunnfield, Ma. *B.A., Harvard, 1980*
Peng, Benjamin C. H. Kew Gardens, N.Y. *B.A., Rochester, 1980*
Pero, Robert Thomas Hyde Park, Ma. *B.A., Harvard, 1980*
Proano, Maritza New York, N.Y. *B.A., Smith, 1980*
Rabbani, LeRoy E. New York, N.Y. *B.A., Harvard, 1980*
Rautenberg, Mark Alan Ithaca, N.Y. *B.A., Cornell, 1980*
Raymond, Elizabeth Gray Philadelphia, Pa. *B.A., Swarthmore, 1980*
Reilly, Philip Joseph New York, N.Y. *B.S., SUNY (Buffalo), 1976*
Reimold, Andreas Michael Dallas, Tx. *B.A., Harvard, 1980*
Rennert, Douglas Andrew New York, N.Y. *B.S., Haverford, 1980*
Roberts, James Wayne Jamaica, N.Y. *B.A., Harvard, 1980*
Rodrigues, Beatriz A. Scarsdale, N.Y. *B.A., Barnard, 1980*
Romano, Thomas Jerome Camillus, N.Y. *B.S., SUNY (Buffalo), 1980*
Rottkamp, John Robert Commack, N.Y. *B.S., SUNY (Stony Brook), 1980*
Ruiz, Frank Westbury, N.Y. *B.S., Yale, 1980*
Saladini, Vincent Rocco, Jr. New York, N.Y. *B.A., Columbia, 1980*
Santos, Annabelle Villatuya Hollis, N.Y. *B.A., Barnard, 1980*
Schmiedeberg, Phyllis N. Babylon, N.Y. *B.A., Johns Hopkins, 1980*
Schoen, Robert Edward Beverly Hills, Ca. *B.A., Columbia, 1979*
Schoenberg, Norman Island Park, N.Y. *B.A., Hofstra, 1980*
Schriger, David Lawrence Englewood, N.J. *B.A., Amherst, 1980*
Schwartzbach, Cary C. Flushing, N.Y. *B.A., Columbia, 1980*
Scuderi, Donna Marie Jamaica Estates, N.Y. *B.S., Adelphi, 1980*
Seymour, Neal Edward Oakdale, N.Y. *B.A., Columbia, 1980*
Shaw, Andrey Shin-Yee New York, N.Y. *B.A., Columbia, 1979*
Sheffield, Mary Katherine Longmeadow, Ma. *B.S., Massachusetts Institute of Technology, 1980*
Singer, Meriamne Bruche New York, N.Y. *B.A., Yale, 1980*
Somlo, Stefan Bronx, N.Y. *B.A., Harvard, 1980*
Sorensen, Mark Francis Rockville Centre, N.Y. *B.A., Duke, 1980*
Speirs, Robert Thomas Port Washington, N.Y. *B.A., Columbia, 1980*
Spriegel, John R. Evanston, Il. *B.S.E., Princeton, 1978*
Stegall, Mark Dale Crosbyton, Tx. *B.A., Harvard, 1979*
Stork, Philip Jacques Stewart Englewood, N.J. *B.S., Harvard, 1977*
Strachan, Alexander Jamaica, N.Y. *B.A., Fordham, 1980*
Tamargo, Rafael Jesus Condado, P.R. *B.A., Princeton, 1980*
Teichman, Faye Brooklyn, N.Y. *B.S., Brooklyn, 1980*
Tilley, Robert John Tacoma, Wa. *B.S., Washington, 1980*
Torres, Ramon Antonio Bronx, N.Y. *B.A., New York University, 1980*
Turey, Maureen New York, N.Y. *B.A., Barnard, 1976*
Weber, Pamela Ann Buffalo, N.Y. *B.S., McGill, 1980*
Westermann, Robert Bayless West Hartford, Ct. *B.A., Harvard, 1980*

Westrich, David Joshua New York, N.Y. *B.A., Pennsylvania, 1980*
Whitehurst James Howell Atlanta, Ga. *B.S., Vanderbilt, 1979*
Whitley, Markus Andrew Bowie, Md. *B.S., Massachusetts Institute of Technology, 1980*
Whitlock, Mary Elizabeth Tenafly, N.J. *B.A., Smith, 1980*
Wiedermann, Joseph Gad Englewood, N.J. *B.A., Harvard, 1979*
Winston, Julia Lynn Oakland, N.J. *B.S., Bucknell, 1979*
Wirth, Robert Lockridge, Palo Alto, Ca. *B.S.E., Michigan, 1974*
Witham, Rebecca Sue Needham, Ma. *B.S., Yale, 1979*
Wong, Shing-Chiu East Elmhurst, N.Y. *B.A., Columbia, 1980*
Wong, Ting Hung New York, N.Y. *B.S., City College, 1980*
Yancopoulos, George Damis Elmhurst, N.Y. *B.A., Columbia, 1980*
Yen, Catherine Eleanor Honolulu, Hi. *B.S., Hawaii, 1979*
Yuen, Jeffrey C. Brooklyn, N.Y. *B.A., Cornell, 1977*

Student Roster: Class of 1985

Abis, David Woodbourne, N.Y. *B.S., Cornell, 1981*
Aboody, Linda Rachel Westbury, N.Y. *B.A., Brown, 1981*
Alexander, Joseph James Stockton, Ca. *B.S., California (Davis), 1981*
Aviv, Jonathan Enoch Beverly Hills, Ca. *B.A., Columbia, 1981*
Avner, Jeffrey Ronald Bellerose Manor, N.Y. *B.A., Johns Hopkins, 1981*
Bachner, Evan Jay Syosset, N.Y. *B.A., Pennsylvania, 1981*
Bank, David Eugene Scarsdale, N.Y. *B.A., Yale, 1981*
Baruch, Alice M. Westchester, N.Y. *B.A., Mount Holyoke, 1974; M.S., New York Medical, 1979; Ph.D., 1981*
Barzel, Eyal Bronx, N.Y. *Sc.B., Brown, 1981*
Bass, Anne Ruth New York, N.Y. *B.A., Harvard, 1981*
Batik, Odette G. New York, N.Y. *B.S., Antioch, 1977; M.P.H., Columbia, 1981*
Baum, Seth Joshua New Rochelle, N.Y. *B.A., Columbia, 1981*
Benardo, Larry Steven Anaheim Hills, Ca. *B.S., California (Irvine), 1977; Ph.D., Stanford, 1981*
Bendixen, Birgitte Holt San Diego, Ca. *B.A., California (San Diego), 1973; M.A., 1975; C.Phil., 1977; Ph.D., 1980*
Bindelglass, David Fred White Plains, N.Y. *B.A., Harvard, 1981*
Bogosh, Samuel Winston Brookline, Ma. *B.Sc., Harvard, 1981*
Bolo, Peter Michael Grand Blanc, Mi. *B.S., Michigan, 1981*
Brancati, Frederick Louis Dix Hills, N.Y. *B.A., Harvard, 1981*
Branden, Peter John Great Neck, N.Y. *B.S., Johns Hopkins, 1981*
Brennan, John Paul New York, N.Y. *B.A., Haverford, 1975*
Brown, Robin Renee Suitland, Md. *B.S., Maryland, 1981*
Brown, William C. Sparkhill, N.Y. *B.S., SUNY (Binghamton), 1981*
Brusco, Louis Yonkers, N.Y. *B.A., Columbia, 1981*
Canning, Robert Babylon, N.Y. *B.A., Columbia, 1981*
Chan, Bernadette New York, N.Y. *B.A., Barnard, 1980*
Chance, John Tighe Rutherford, N.J. *B.A., Williams, 1981*
Chang, Sophia Whasun McLean, Va. *B.A., Amherst, 1981*
Chang, Winjing New York, N.Y. *B.S., Yale, 1981*
Charney, Mark Alan Fullerton, Ca. *B.S., Stanford, 1981*
Coburn, Cynthia Ann New York, N.Y. *Sc.B., Brown, 1980*
Cohen, Seth Aloe Cambridge, Ma. *B.A., Harvard, 1981*
Coman, Eugene Anthony Bronx, N.Y. *B.A., Wesleyan, 1981*
Compaine, Andrew Guy Cherry Hill, N.J. *B.A., Harvard, 1981*
Conde, Miguel Angel New York, N.Y. *B.A., Columbia, 1980*
Crim, Julia Ruth New York, N.Y. *B.A., Oberlin, 1978*
Cushman, James Gordon Camp Hill, Pa. *B.A., Washington, 1981*

Dalak, Gregory Wakeem Staten Island, N.Y. *B.S., Yale, 1981*
Davol, Joan Evers New York, N.Y. *B.A., Williams, 1976*
Deutsch, Nicholas Andrew East Hampton, N.Y. *B.A., Columbia, 1981*
Diamond, Lisa Carol New York, N.Y. *B.A., Yale, 1981*
Dickson, David Gordon Lewiston, N.Y. *B.S., Rochester, 1981*
Dirbas, Frederick Mark Brooklyn, N.Y. *B.S., Stanford, 1981*
Downey, Robert John New York, N.Y. *B.Sc., Yale, 1981*
Duberman, Eric David Armonk, N.Y. *B.A., Columbia, 1981*
Edeen, John Kearny, N.J. *B.A., Columbia, 1981*
Ehrlich, Martin Harvey New York, N.Y. *B.A., Rochester, 1973*
Emery, John Matthew Nassau, N.Y. *B.A., Princeton, 1979*
Fallon, Brian Anthony Queens, N.Y. *B.A., Harvard, 1976; M.Ed., 1978; M.P.H., Columbia, 1981*
Flock, Timothy Joseph Garden City, N.Y. *B.A., Columbia, 1981*
Freeman, Neil Joshua Scarsdale, N.Y. *B.A., Williams, 1979*
Frend, Jeremy M. New York, N.Y. *B.A., Columbia, 1981*
Frishman, Gary Nathan Armonk, N.Y. *B.A., Pennsylvania, 1980*
Gabrieli, Christopher F.O. Buffalo, N.Y. *B.A., Harvard, 1981*
Geller, Arthur Jay East Brunswick, N.J. *B.A., Columbia, 1981*
Gerst, Steven Richard New York, N.Y. *B.A., Columbia, 1981*
Geurts, Barbara Linda So. Plainfield, N.J. *B.A., Rutgers, 1981*
Gilson, Michael Kenneth Bronx, N.Y. *B.A., Harvard, 1981*
Glassman, Steven David Teaneck, N.J. *B.A., Princeton, 1980*
Gopal, Aasha S. E. Brunswick, N.J. *B.A., Columbia 1979; M.Sc., Massachusetts Institute of Technology, 1981*
Gordon, Marc Lawrence Rochester, N.Y. *B.A., SUNY (Buffalo), 1975; M.A., 1976*
Greenberg, Steven Mark Wyncote, Pa. *B.A., Harvard, 1981*
Gribetz, Richard I. New York, N.Y. *B.A., Columbia, 1975; B.H.L., M.A., Jewish Theological Seminary, 1979*
Grinberg, Manuel Eduardo Roslyn, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
Harding, James Sutherland Toledo, Oh. *B.A., Harvard, 1981*
Hardy, Russell Irving Brookline, Ma. *B.A., Williams, 1978*
Hershey, Mark David Brewster, N.Y. *B.A., Rochester, 1981*
Hill, Terri Lynn Columbia, Md. *B.A., Harvard, 1981*
Hirschhorn, Lisa Ruth New York, N.Y. *B.S., Harvard, 1981*
Hodges, Marian Osborne Larchmont, N.Y. *B.A., Dartmouth, 1979*
Hoffman, Jeffrey Greg Flushing, N.Y. *B.A., Pennsylvania, 1981*
Hong, Roy W. Staten Island, N.Y. *B.A., Brown, 1981*
Housey, Gerard Mitchell Harper Woods, Mi. *B.S., Michigan, 1981*
Hripcsak, George Michael Hicksville, N.Y. *B.S., Haverford, 1981*
Jacobs, Laurie Gail Pleasantville, N.Y. *B.A., Wesleyan, 1981*
Jennis, Andrew Abraham South Orange, N.J. *B.A., Yale, 1981*
Jones, James Irvin New York, N.Y. *B.S., Columbia, 1981*
Jones, Valerie Teresa Montclair, N.J. *B.A., Dartmouth, 1981*
Julien, Juana Maria Hialeah, Fl. *B.S., Miami, 1981*
Kaplan, Andrew Howard Melville, N.Y. *B.S., Harvard, 1981*
Kaplan, Bruce Plainview, N.Y. *B.S., Adelphi, 1981*
Kim, Albert Nelson New York, N.Y. *B.A., Harvard, 1981*
Klumpar, David Ivan Lexington, Ma. *Sc.B., Brown, 1981*
Koeleveld, Robin Frederick Newport News, Va. *B.A., Harvard, 1981*
Kramer, Ethan Douglas Tuscaloosa, Al. *B.A., Vassar, 1981*
Laske, Douglas Walter Queens, N.Y. *B.A., Harvard, 1981*
Levine, Nancy Setauket, N.Y. *B.S., SUNY (Stony Brook), 1980*
Lin, Christopher Chi-Ching Forest Hills, N.Y. *B.S., Columbia, 1981*

Lloyd, Mary Ann Ellen Danville, Ca. *B.S., San Francisco, 1981*
Lodge, Henry Sears Beverly, Ma. *B.A., Pennsylvania, 1981*
Maddon, Paul Jay Queens, N.Y. *B.A., Columbia, 1981*
Madsen, Nancy Sue Wethersfield, Ct. *B.S., Bates, 1981*
Markowitz, David Daniel Scarsdale, N.Y. *B.A., Swarthmore, 1981*
Matthew, Thomas Lewis New York, N.Y. *B.A., Harvard, 1981*
McKenzie, Keith B. New York, N.Y. *B.A., Columbia, 1980*
McNulty, John Michael West Nyack, N.Y. *B.S., Columbia, 1981*
Mendez, Leonardo Guaynabo, P.R. *B.S., Yale, 1981*
Meng, Tze-Chiang New Rochelle, N.Y. *B.S., Harvard, 1981*
Morrone, Lee Ellen Brooklyn, N.Y. *B.A., Barnard, 1981*
Moscoso, Juan Francisco Guaynabo, P.R. *B.S., Michigan, 1981*
Navedo, Andres Tadeo Arecibo, P.R. *B.S., Puerto Rico, 1981*
Nunez, Richard Flushing, N.Y. *B.A., Columbia, 1981*
Oddone, Eugene Z. Colorado Springs, Co. *B.S., Denver, 1981*
Ores, David Joseph Leonia, N.J. *B.A., Ohio Wesleyan, 1981*
Pacheco, Elba Milagros Ponce, P.R. *B.A., Wellesley, 1981*
Pak, Wonkyu Sunnyvale, Ca. *B.A., Harvard, 1981*
Pearsen, Kenneth Daniel Rochester, N.Y. *B.A., Pennsylvania, 1981*
Pollock, Roger Gerard Farmingdale, N.Y. *B.A., Yale, 1981*
Radoslovich, Glauco Andrew Cliffside Park, N.J. *B.S., St. Peter's, 1981*
Reiser, Janet Ruth New York, N.Y. *B.A., Columbia, 1981*
Rosen, Beth Alyse Massapequa, N.Y. *B.A., Pennsylvania, 1981*
Rosenblum, Nancy Jamaica Estates, N.Y. *B.Sc., Cornell, 1981*
Ross, Lisa Anne Los Angeles, Ca. *B.A., Harvard, 1981*
Russo, Joseph Richard Huntington, N.Y. *B.S., St. John's (New York), 1981*
Sampson, John George Warwick, N.Y. *B.S. SUNY (Stony Brook), 1981; A.S., Orange County Community, 1979*
Satra, Karin Helene W. Paterson, N.J. *B.A., Douglass, 1981*
Schweitzer, Jana Tenafly, N.J. *B.A., California (Berkeley), 1981*
Seefeld, William C.R. Chappaqua, N.Y. *B.A., Duke, 1972; O.D., New England College of Optometry, 1977*
Segal, Bruce Arthur Weston, Ma. *B.A., Clark, 1981*
Shapiro, Janet Marjorie New York, N.Y. *B.S., Yale, 1981*
Sheiman, Robert Glenn Yonkers, N.Y. *B.S., Columbia, 1980*
Shikora, Scott Alan Bellerose, N.Y. *B.S., Muhlenberg, 1981*
Shlasko, Edward Woodstock, N.Y. *B.A., Oberlin, 1979*
Siderides, Elizabeth Stamford, Ct. *B.A., Harvard, 1981*
Silbey, Mark Bennett Short Hills, N.J. *B.A., Wesleyan, 1979; M.A., Rice, 1981*
Simotas, Alexander C. Alphine, N.J. *B.A., Columbia, 1981*
Slater, Jonathan Allen New City, N.Y. *B.A., Harvard, 1981*
Spector, Paul Joseph New York, N.Y. *B.A., Amherst, 1978*
Stein, Michael David Cliffside Park, N.J. *B.A., Harvard, 1981*
Stopek, Alison Tami Plainview, N.Y. *B.A., Brown, 1981*
Straceski, Anthony Joseph E. Hartford, Ct. *B.A., Harvard, 1981*
Summit, Pamela Honey Merrick, N.Y. *B.A., Brown, 1981*
Taterka, James Andrew Englewood Cliffs, N.J. *B.A., Pennsylvania, 1981*
Thadani, Vjay Michael Chevy Chase, Md. *B.A., Princeton, 1976; M. Phil., Yale, 1978; Ph.D., Yale, 1981*
Theise, Neil David W. Hartford, Ct. *B.A., B.A.S., Pennsylvania, 1981*
Tissot, Marc Francis Rego Park, N.Y. *B.A., CUNY (Queens), 1981*
Touran, Touraj Tehran, Iran *B.A., Princeton, 1981*
Trehu, Stephen Marc Wilmington, De. *B.A., Princeton, 1981*
Valdes, Alfonso Jose Miami, Fl. *B.S., Miami, 1981*
Villegas, Robert Arturo New Hyde Park, N.Y. *B.S., St. John's (New York), 1981*

Walker, Benjamin Harrison New York, N.Y. *B.A., Bowdoin, 1981*
Warren, Wayne Scott Forest Hills, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
Weinthal, Joel Adam Pearl River, N.Y. *B.S., Stanford, 1981*
Weiss, Robert Marc N. Bellmore N.Y. *B.S., SUNY (Stony Brook), 1981*
Willenbucher, Robert Francis New York, N.Y. *B.S., Rochester, 1981*
Wiltz, Othon San Juan, P.R. *B.S., Johns Hopkins, 1981*
Wohl, Jodie Carol New York N.Y. *B.A., Brown, 1977*
Wolf, David Cary Livingston, N.J. *B.A., Yale, 1981*
Yarmush, Joel Mann Brooklyn, N.Y. *B.E., Cooper Union, 1977; M.A., Princeton, 1979; Ph.D., Princeton, 1981*
Zeller, Lawrence Ira New York, N.Y. *M.S.W., SUNY (Stony Brook), 1974*
Zuckerman, Alan Miles N. Rochelle, N.Y. *B.A., Harvard, 1981*

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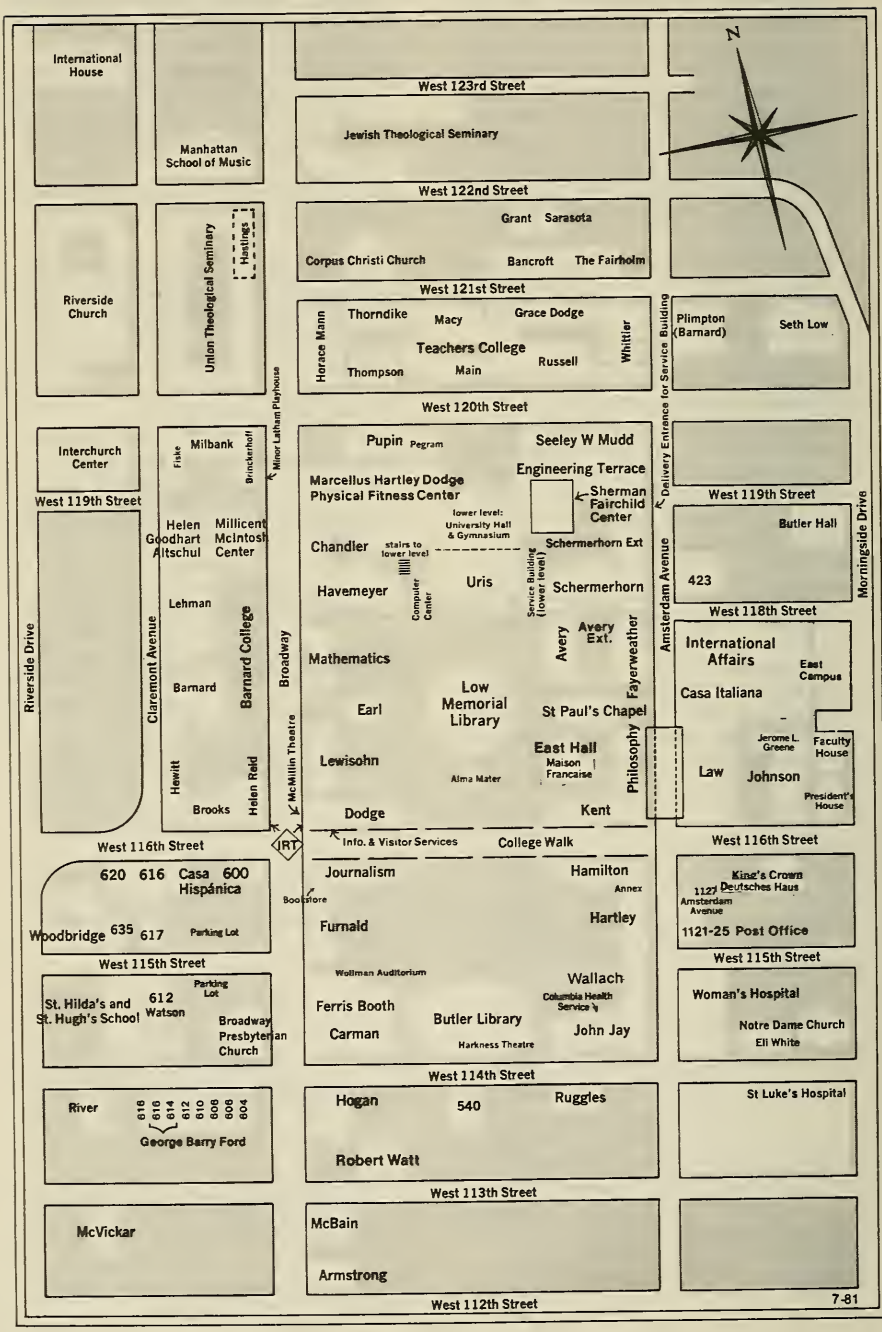
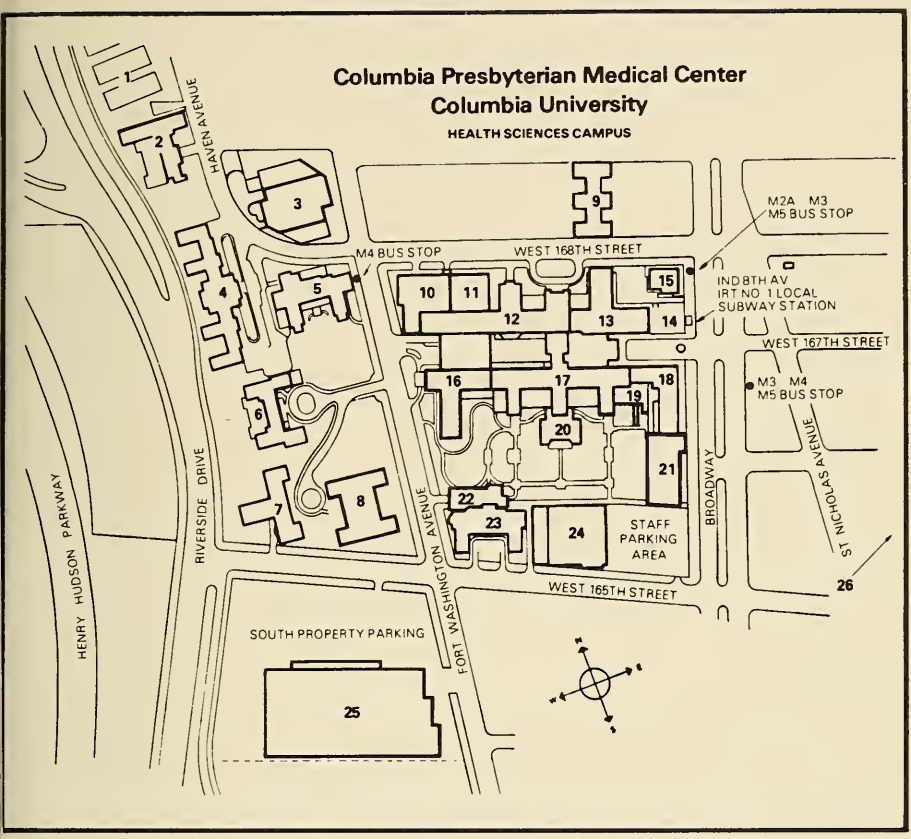
COLUMBIA UNIVERSITY
The Morningside Campus & Environs





11 Alumni Auditorium
3 Augustus Long Library
8 Dana W. Atchley Pavilion
18 The Babies Hospital
21 Babies Hospital Research, Teaching, and Office Addition
2 Bard Hall Medical Student Residence
1 Bard Haven Towers
10 William Black Medical Research Building
3 Cancer Center/Institute of Cancer Research
24 Central Service Building
12 College of Physicians and Surgeons
26 Center for Community Health Systems

13 School of Dental and Oral Surgery
9 Georgian Nurses Residence
22 Edward S. Harkness Eye Institute
23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
3 Julius and Armand Hammer Health Sciences Center
3 Institute of Human Nutrition
2/12 International Institute for the Study of Human Reproduction

6 Anna C. Maxwell Hall, School of Nursing Residence
5 The Neurological Institute of New York
6 School of Nursing
25 Parking facilities
17 Presbyterian Hospital
New York Orthopedic Hospital
Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
15 School of Public Health
19 Radiotherapy Center
13 Vanderbilt Clinic
14 Vanderbilt Clinic Addition

The Faculty of Medicine
COLLEGE OF PHYSICIANS
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Columbia University
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Office of Financial Aid: (Area code 212) 694-4100

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Physical Therapy and Occupational Therapy
Continuing Education in the Health Sciences: Postgraduate Courses
Center for Psychoanalytic Training and Research
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Academic Calendar, 1982–1983

Major Religious Holidays

For a statement of University policy regarding religious holidays, see *Admission, Registration, and Expenses*—Regulations.

The Jewish holy days shown below begin at sundown of the preceding day. Some of the major holidays occurring on weekdays are the following:

Thursday, July 22	Id al Fitr
Saturday, September 18	Rosh Hashanah
Monday, September 27	Id al Adha
Monday, September 27	Yom Kippur
Saturday, October 2	First days of Succoth
Saturday, October 9	Concluding days of Succoth
Tuesday, Wednesday, March 29, 30	First days of Passover
Monday, Tuesday, April 4, 5	Concluding days of Passover
Friday, April 1	Good Friday
Wednesday, Thursday, May 18, 19	Shavuoth

JUNE

7-18 Monday-Friday.* Registration for Class of 1984.

7 Monday. Academic year begins for Class of 1984.

8-9 Tuesday-Wednesday. NBME I, Class of 1984. Passing is required for graduation.

21-25 Monday-Friday.* Registration for Class of 1983.

28 Monday. Academic year begins for Class of 1983.

JULY

1 Thursday. Class of 1983 reports to hospital rotations.

5 **Monday. Independence Day observed for third- and fourth-year students.**

6 Tuesday. Class of 1984 reports to hospital rotations.

AUGUST

2 Monday.† Last day to apply or reapply for all degrees to be conferred in October (see September 9).

23-27 Monday-Friday. Optional early registration for second-year students.

26-31 Thursday-Tuesday. Orientation for first-year students.

27 Friday.* Registration for first-year students.

30 Monday.* Registration for second-year students.

**Students allowed to register after the period specified must pay a late fee.*
†Students who apply after this date must pay a late fee.

SEPTEMBER

1 Wednesday. Academic year begins for first- and second-year students; late registration begins.

6 **Monday. Labor Day holiday for first-, second-, third-, and fourth-year students.**

8-9 Wednesday-Thursday. National Board Part I Examination for students failing June 8-9 examination.

9 Thursday. Last day to file *late* applications for October degrees.

28-29 Tuesday-Wednesday. National Board Part II Examination for fourth-year students. Passing is required for graduation.

OCTOBER

27 **Wednesday. Award of October degrees.**

NOVEMBER

2 **Tuesday. Election Day. Holiday for first- and second-year students.**

5 Friday.* Last day to apply or reapply for all degrees to be conferred in January (see December 10).

25-26 **Thursday-Friday. Thanksgiving holidays for first-, second-, and third-year students.**

DECEMBER

10 Friday. Last day to file *late* applications for January degrees.

18 **Saturday, through January 2, Sunday. Vacation for second- and third-year students.**

21 **Tuesday, through January 2, Sunday. Vacation for first-year students.**

JANUARY

3 Monday. Resumption of classes for first-, second-, and third-year students.

12 Wednesday. First semester ends for first-year students.

17 Monday. Second semester begins for first-year students.

26 **Wednesday. Award of January degrees.**

FEBRUARY

21 **Monday. Washington's Birthday observed. Holiday for first- and second-year students.**

22 Tuesday.* Last day to apply or reapply for all degrees to be conferred in May (see April 1).

MARCH

26 **Saturday, through April 3, Sunday. Spring vacation for first- and second-year students.**

**Students who apply after this date must pay a late fee.*

APRIL

1 Friday. Last day to file *late* applications for May degrees.

6-7 **Wednesday-Thursday. National Board Part II Examination for students failing September 28-29 examination.**

MAY

4 Wednesday. Dean's Day for Medical Student Research.

17 **Tuesday. Columbia University Commencement and Convocation (tentative) of the College of Physicians and Surgeons.**

30 **Monday. Memorial Day. Holiday for first-, second-, and third-year students.**

JUNE

4 Saturday, through June 13, Monday. Study period for second-year students NBME I.

10 Friday. Second semester ends for first-year students.

13-18 Monday-Saturday.* Registration for Class of 1985.

14 Tuesday. Academic year begins for Class of 1985.

14-15 **Tuesday-Wednesday. National Board Part I Examination. Passing is required for graduation.**

17 Friday. Major Clinical Year concludes for third-year students.

28-30 Tuesday-Thursday.* Registration for Class of 1984.

30 Thursday. Academic year begins for Class of 1984.

JULY

1 Friday. Electives begin for Class of 1984.

4 **Monday. Independence Day. Holiday for third- and fourth-year students.**

5 Tuesday. Class of 1985 reports to hospital rotations.

Dates of National Board Examinations

Part I	September 8-9, 1982. Not given at P&S. June 14-15, 1983. Required by P&S.
Part II	September 28-29, 1982. Required by P&S. April 6-7, 1983. Not given at P&S.

**Students allowed to register after the period specified must pay a late fee.*

Health Sciences Administration

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FRITZ R. STERN, Ph.D. *Provost of the University*

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PHILIP J. SHARKEY, Ph.D. *Deputy Vice President for Health Sciences*

CHERYL GILLEN RICE, M.P.A. *Assistant Vice President for Health Sciences Administration*

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THOMAS Q. MORRIS, M.D. *Vice Dean*

BERNARD CHALLENOR, M.D. *Associate Dean for Hospital Affairs*

RAYMOND J. DEVLIN, B.B.A. *Associate Dean for Administrative Affairs*

LINDA D. LEWIS, M.D. *Associate Dean for Student Affairs*

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The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which the physician's knowledge develops.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to Ms. Rosalind S. Fink, the Director of the University's Office of Equal Opportunity and Affirmative Action (305 Low Memorial Library, New York, N.Y. 10027, telephone 212-280-5511), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above-mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment qualified special disabled veterans and veterans of the Vietnam era.

All employees, students, and applicants are protected from coercion, intimidation, interference or discrimination for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has also been designated to coordinate the University's compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied equal opportunity should contact this Office, which will investigate complaints and counsel employees on questions relating to equal opportunity and affirmative action.

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

History of the College and University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises

about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Augustus C. Long Health Sciences Library

The Columbia University Health Sciences Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 370,000 volumes and a staff of 42, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 3,100 periodicals are received regularly. The library includes a comprehensive media center equipped with audiovisual materials and equipment, as well as a significant rare book and special collections section. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. Materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of approximately twenty other research institutions including Stanford and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Comprehensive Cancer Center/Institute of Cancer Research

The Cancer Research Center was established in 1973. In 1977 it was designated the Cancer Center/Institute of Cancer Research. In 1979 the Center was awarded Comprehensive status by the National Cancer Institute in recognition of its broad responsibility for research, patient care, and cancer control activities. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's, Roosevelt, Harlem—as well as Overlook in Summit, New Jersey, and Morristown Memorial Hospital in New Jersey. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the care of patients with cancer.

The Institute of Cancer Research of Columbia University, College of Physicians and Surgeons, was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938.

The Comprehensive Cancer Center and the Institute of Cancer Research were separated in 1980 to function as two separate entities. While both are mutually involved in a clinical and basic research cancer effort, their administrations function autonomously.

The Centers for Community Health

The Centers for Community Health are composed of a Center for Health Services Research and a Collaborative Program in Oral Health with the School of Dental and Oral Surgery whose research program is one of the few in the country directed toward an area of health services which has long been neglected. The Centers provide a locus for student teaching and research by the Faculty of Medicine and the School of Public Health, especially health administration, on problems of the delivery, financing, and distribution of health care in a diverse group of institutions in the inner city and the suburbs.

Center for Geriatrics and Gerontology

The Center was established and funded by the Faculty of Medicine and the New York State Office of Mental Health and is a rich resource for teaching and research in geriatrics and gerontology in a group of medical as well as long-term care facilities. The Center recently has been designated by the Administration on Aging as a long-term care gerontology center. With major funding from the Administration, it is one of the five operational programs on long-term care and intends to forge an alliance between the University and the community providers of care for the development of services to the elderly. Its major focus is research and the evaluation of programs for the care of the elderly.

Gertrude H. Sergievsky Center

The Sergievsky Center is a center for research in the epidemiology of epilepsy, cerebral palsy, and developmental brain disorders. The center has a core scientific faculty concerned with the development of research in the epidemiology of those diseases. Funded with an endowment, it participates in the teaching programs of the Epidemiology Division of the School of Public Health and provides a major resource in epidemiology research and training in neuroepidemiology.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are under way, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the seventh floor of the Health Sciences Center.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 by Dr. Howard C. Taylor and was made possible by a substantial grant from the Ford Foundation. The primary purpose of the founders was to foster research in the sciences relevant to the solution of the world population problem. In more recent years, the aims of the Institute have been interpreted more broadly to include reproductive health services for women, international research and technical assistance, social science research, and academic programs. The Institute now consists of three centers.

The Center for Reproductive Sciences is composed of an interdisciplinary group of investigators devoting themselves to the study of the biochemical and physiological aspects of reproduction in men and women. It also comprises a clinical division involved in the diagnosis and treatment of the diseases of female reproduction.

The aims of the Center for Population and Family Health are more specifically relevant to the social consequences of human reproduction. The Center's community-oriented Reproductive Health Services for Women Unit, in cooperation with the division of ambulatory care of the Department of Obstetrics and Gynecology, provides care, with emphasis on services for adolescents, to the community surrounding the Columbia Presbyterian Medical Center. The Center's International Research and Technical Assistance Unit works with a number of foreign governments and with private organizations toward improved basic health and family planning services for poor people in developing countries. The Social Sciences Research Unit conducts ongoing evaluations of the Center's domestic reproductive service programs and carries out a basic research program on the causes and consequences of adolescent fertility. Finally, as a division of the School of Public Health, the Center provides academic programs leading to the M.P.H. and Dr.P.H. degrees in the fields of population/family planning, maternal and child health, and public health nutrition.

A third unit has recently been added to the Institute: the Center for Male Reproduction. The Center consists of an interdisciplinary group of basic scientists and clinicians engaged in the study and treatment of the diseases of the male reproductive system.

The offices of the Centers for Reproductive Sciences and for Male Reproduction are at 630 West 168th Street and the office for the Center for Population and Family Health is at 60 Haven Avenue, Floor B-3, New York, N.Y. 10032.

Affiliated Hospitals

The Presbyterian Hospital in the City of New York

Founded in 1868, the Hospital joined with the Columbia College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the permanent alliance agreement with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,291 beds and 48 bassinets. Plans call for a major modernization effort to begin in 1983.

The Hospital includes all of the individual units described below:

Presbyterian Hospital is the single largest hospital pavilion.

The New York Orthopaedic Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was merged with the Presbyterian Hospital as its orthopedic service.

Squier Urological Clinic is the Urology Service of the Presbyterian Hospital.

Sloane Hospital for Women, currently the Hospital's obstetrics and gynecology unit, was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now is part of the Presbyterian Hospital's new Center for Women and Children.

Harkness Pavilion, erected when the Medical Center was established in 1928, is available for the accommodation of private and semiprivate patients from various services.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies. It is now part of the Center for Women and Children.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute includes facilities added in 1960 for psychiatric patients. It comprises the Hospital's Neurology and Neurological Surgery Services.

The Edward S. Harkness Eye Institute, site of the Hospital's Ophthalmology Service, opened in 1933. It has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the outpatient department for the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 180 beds and a staff of specialists who are all salaried and full time. In 1981 there were 130,000 visits to the Outpatient Department and 6,100 admissions. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 22,000 volumes and about 600 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of nearly 1,100 beds serving Central Harlem and environs, responsible for the care of approximately 400,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is an independent rehabilitation hospital with complete medical services, owned and operated by the

state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has 800 admissions and 6,000 outpatient visits a year. In 1980 a new 213-bed hospital building was opened, renovation of existing research facilities was completed, work began on construction of new research quarters, and plans were completed for establishment of several major new research centers. The Hospital's long-standing program of bioengineering research now becomes the Orthopedic Engineering and Research Center; to this will be added the Regional Bone Center, Regional Arthritis Center, and Skeletal Pathology Center.

Morristown Memorial Hospital

Morristown Memorial Hospital is a regional hospital center offering comprehensive health services for the entire family. It is a voluntary, nonprofit institution with a history of community service dating back to 1892. The hospital has become a central health care facility serving Morris, Warren, Sussex, and Somerset counties, and a medical referral center for all of northwest New Jersey. Morristown Memorial is also a teaching hospital, with programs for medical, nursing, and technical staff. It became affiliated with the College of Physicians and Surgeons in 1979. Morristown Memorial, Overlook Hospital in Summit, and St. Barnabas Hospital in Livingston are members of the Shared Services Consortium pioneering regionalized health care services in northern New Jersey. With 669 beds, 1,800 employees, 550 nurses, a medical and dental staff of more than 450, and a full spectrum of basic and highly specialized services, Morristown Memorial combines the traditional advantages of a community hospital with the advanced capabilities of a progressive medical center. The hospital has two divisions: one where the emphasis is on acute care; the other, a center for preadmission testing, geriatric extended care, outpatient and alcoholic services, and planned facilities for subacute and rehabilitative care.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 540-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and primary care internal medicine and pediatrics through a program of broad-based clinical experience for graduate physicians. Outreach programs have been pioneered in alcoholism and other addictive illness, home-care-based hospice, and mobile intensive care utilizing paramedics. The newly opened Center for Community Health provides outpatient services including preadmission testing, ambulatory surgery and radiology, and a consumer health library. In 1982 the hospital received state approval for the addition of 84 new beds.

St. Luke's–Roosevelt Hospital Center

St. Luke's Hospital Center, which has included Woman's Hospital since 1953, merged with The Roosevelt Hospital in 1979, forming a Hospital Center containing 1,363 beds and serving a catchment area spanning Manhattan's west side from 34th to 134th Streets. Both hospitals had maintained teaching affiliations with the College of Physicians and Surgeons of Columbia University for many years before 1971, when they each became full University hospitals. Under the terms of the affiliation with Columbia University, new members of the medical staff are appointed by the Hospital Center's Board of Trustees after they have received appointments as officers of instruction at the College of Physicians and Surgeons.

St. Luke's Hospital Center Division

St. Luke's was established in 1850 and has been on Morningside Heights next to the main Columbia campus since 1896. It merged with Woman's Hospital in 1953, and today the hospital complex contains 780 beds, including 45 pediatric beds, 59 obstetric beds, and 50 bassinets. Approximately 24,000 patients are admitted yearly to the four major and eleven specialty services. The attending staff numbers 600 doctors; the house staff consists of 219 residents and fellows.

St. Luke's is recognized as a leader in such fields as heart surgery, kidney transplantation, artificial kidney treatments, and noninvasive diagnosis (ultrasound). The Hospital Center's clinically oriented research projects are involved in such areas as blood diseases, coronary artery disease, gastroenterology, obesity and nutrition (it is the site of the only federally funded obesity research center), pulmonary disease, renal transplant-immunology, and bioengineering. A medical library of 22,000 volumes is an integral part of the Hospital Center. St. Luke's is both a major referral institution and a community hospital. The more than fifty specialty and subspecialty clinics see 50,000 patients yearly (totaling approximately 200,000 visits); the Emergency Room is one of the busiest in Manhattan, with 76,000 visits annually. The Hospital Center also operates extensive community programs in alcoholism treatment, drug detoxification, and mental health.

Roosevelt Hospital Division

The Roosevelt Hospital treated its first patient in 1871. It contains 583 beds and bassinets. There are about 217,000 outpatient and emergency-room visits annually. Approximately 19,000 patients are admitted to this hospital yearly. The hospital is engaged in many research and teaching activities. There are 159 members on the house staff. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 17,000 volumes and subscribes to 550 medical and technical journals. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction and Alcoholism Programs and many other outreach and community services sponsored by the Departments of Pediatrics, Psychiatry, and Medicine, and the ambulatory care division.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Office of Mental Health. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to provide the highest quality of clinical care for patients with psychiatric disorders, to provide education for mental health professionals, and to do research into the causes and treatment of psychiatric illness. The Institute currently maintains sixteen major research laboratories, a hospital, and a wide variety of specialized outpatient departments which provide diagnostic and treatment programs. The Lawrence C. Kolb Research Annex, a thirteen-story facility dedicated to psychiatric research, was opened in the spring of 1982.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in September of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other course in chemistry covering at least one academic year. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. Students applying for admission must also have taken the Medical College Admission Test in the spring or autumn of the year of application, but only if the test scores will be sent to medical schools in the State of New York; if the scores will not be sent to this school, the requirement will be waived for all applicants. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $40. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested only by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and

make decisions, and to develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art and, to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Only a very small number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if a vacancy exists.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission with advanced standing to this school from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been able to admit relatively few individuals, either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of the Registrar during the registration period listed in the Academic Calendar. The Office of the Registrar, on the first floor of the Black Building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students will be asked to give Social Security numbers when registering in the University. Any who do not now have a number should obtain one from their local Social Security office well in advance of registration.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period without the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Conduct

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar. (See the *Academic Calendar* for dates of religious holidays.)

Where scheduling conflicts prove unavoidable, no student will be penalized for absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (Black Building, Room 138) no later than September 10 in the autumn term and January 28 in the spring term. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute for medical students, are subject to change at any time at the discretion of the Trustees.

Beginning with the academic year 1979–1980, University charges such as tuition and fees, residence halls, and board plans may be paid at the student's convenience during the term. The

full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a finance charge of 1.5 percent a month is assessed on amounts not paid by the due date shown on the monthly bill. In either event, however, the student is required to sign a Retail Installment Credit Agreement at the time of registration which sets forth the full terms and conditions of payment. All charges must be paid by the end of the term.

Tuition, the student health service fee, and the health insurance premium are payable as part of registration. (If the student chooses to pay tuition in two installments, one half of the tuition is payable at registration in September and the other half is payable in January.) If these fees are paid after the last day of registration (*see* the Academic Calendar), they will not be reduced, and a minimum late fee of $50 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$9,990.00

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1–August 31)

Health service fee	$270.00
Hospital insurance premium	188.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Office of the Registrar, Black Building, Room 138, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees

For admission	$40.00
For late application, or late renewal of application, for a degree	50.00

Late Registration Fees

	Full-Time	*Part-Time*
During late registration	$ 50.00	$50.00
Up to four weeks after late registration	100.00	60.00
Four to eight weeks after late registration	150.00	70.00
Eight to twelve weeks after late registration	200.00	80.00
Beyond twelve weeks after late registration	250.00	90.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Registrar in writing; failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Registrar receives the student's written notification. Application fees, late fees, and special fees are not refundable.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$75.00
Part-time study	40.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Registrar.

Adjustment Schedule

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$40 or $75	0
Week following second Saturday after first day of classes	40 or 75	10
Second following week	40 or 75	20
Third following week	40 or 75	30
Fourth following week	40 or 75	45
Fifth following week	40 or 75	60
Sixth following week	40 or 75	75
Seventh following week	40 or 75	90
Eighth following week	40 or 75	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Registrar, 630 West 168th Street. In the 1982–1983 academic year, the last day to file for an October degree is August 2; for a January degree, November 5; and for a May degree, February 22. A late fee of $50 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 9 for October degrees, December 5 for January degrees, April 1 for May degrees). Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application. A $50 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above.)

Requests for Transcripts

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of the Registrar, 201 Philosophy Hall, Columbia University, New York, N.Y. 10027. *Official* copies will be sent directly by the University only to an official address such as another university, a business firm, or government agency. However, students or alumni may request that unofficial copies of their transcripts (stamped "Student Copy") be sent directly to them.

There is a charge of $5 for each transcript requested singly, or $5 for the first copy and $1 for each additional copy requested at the same time. There is no charge for intrauniversity copies sent between University offices. Transcript requests are processed in the order received and require five to seven working days for processing. Specific deadlines should be mentioned, and checks accompanying requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$9,990.00
Health and Hospitalization Insurance Fees	458.00
Books and supplies	730.00
Microscope rental cost and other equipment	570.00

In addition to the educational costs listed above, each first-year student should budget approximately $5,450 to cover housing ($2,200), food ($2,200), clothing, laundry and dry cleaning ($325), and miscellaneous expenses ($725).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for students in the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with a swimming pool, basketball and squash courts, and facilities for other sports.

Room rates at Bard Hall depend on the length of the academic year and the room

assignment. Information on the cafeteria service, room application forms, and other details are provided for entering students by the Admissions Office. Selected one-bedroom apartments in the Bard Haven Towers are reserved for married students. Other one-, two-, and three-bedroom apartments can be rented by groups of single students.

For further information concerning on- and off-campus housing on or near the Health Sciences Campus, write to the Assistant Director of Residence Halls, Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Tower I on the Medical Center campus. Married or single students may rent apartments in Towers II and III; the rents are higher. Information may be obtained from the Manager, Bard Haven Towers, 100 Haven Avenue, New York, N.Y. 10032.

Financial Aid

All financial aid awards are based on demonstrated need. Each year applicants for financial aid are required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

The federal government makes available each year a limited number of one-year full scholarships for first-year students of Exceptional Financial Need (EFN). Funds are allocated to medical schools, who are responsible for selection of EFN recipients. Students need not request consideration for these funds directly. Awards are determined from the information provided on the financial aid application. Continuation of federal funding for this program is uncertain.

Upon acceptance by the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State offers the Regents Physician Shortage Scholarship, which is intended to ease the physician shortage in certain areas of the state. The Financial Aid Office provides interested students with the necessary information on applications for these programs. Applicants to medical school should also consult college premedical offices for information on the competitive New York State Regents Scholarships for Professional Study of Medicine. Applications are due the October prior to matriculation.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States or permanent residents (visa status). Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 250 West 57th Street, New York, N.Y. 10019 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. The Financial Aid Office of the

College of Physicians and Surgeons advises students of the availability of this scholarship annually.

There are a number of scholarship funds administered by the Financial Aid Office of the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University and are awarded to qualified students by the Financial Aid Office.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ALUMNI A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA AND ABRAHAM PENNER BERNHEIM SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

GEORGE BLUMENTHAL, JR. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

DR. HARRY BRITENSTOOL MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

DR. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

ALONZO CLARK Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

HENRY D. CRUGER Bequest of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DAVID M. DEVENDORF Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

FRANCIS E. DOUGHTY Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

WILLIAM H. HEMINGWAY

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

CHARLES EUGENE HUBER, SR. Bequest of Francis D. Huber, in memory of his father.

FRANCIS HUBER Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students studying under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber.

ELIZABETH HALL McCULLOGH Given by Mrs. William G. Heaphy, in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons.

HERBERT D. MANLEY Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH F. SAPHIR MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus's services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, Jr., MEMORIAL Given by Dr. E. E. Stewart, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

HAROLD S. VAUGHAN Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the class of 1945, in memory of their classmate.

WHITING—Dr. FORDYCE B. St. JOHN SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Dr. JAMES LANCELOT WILSON Awarded to a student selected by the College of Physicians and Surgeons.

JOHN C. WOOD MEMORIAL Established by family and friends in memory of Dr. Wood, Class of 1976.

Gift Funds

CITIBANK MEDICAL SCHOLARSHIP Established by the Citibank. The recipient must have demonstrated need for support and he/she must be a New York State resident.

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees. Foreign students may borrow from federal or state loan funds upon being granted permanent resident visa status in the United States.

Health Professions Student Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus $2,500. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 9 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during period of deferment.

Health Professions Loans are *forgiven* or *cancelled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state that has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a

low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be cancelled. Repayment of loans for service in shortage areas is subject to annual allocation of funds from the federal government.

National Direct Student Loans. Funds are allocated by the Office of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The total (undergraduate and graduate school loans) available to a student from the NDSL program is $12,000. The current interest rate, payable during the repayment period, is 5 percent on the unpaid principal. Repayment begins six months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service, during service in the Peace Corps or Volunteers in Service to America (VISTA), during service in the National Health Service Corps, or for up to two years during service in an internship required to begin professional practice.

Federal and State Guaranteed Loans. Under the auspices of the Bureau of Student Financial Assistance of the Department of Education, federally insured loans are available to students with demonstrated financial need. The loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is $5,000, and the total outstanding loan balance at any one time may not exceed $25,000. Lending institutions participating in this program can provide information regarding interest rates, repayment, and deferment of repayment.

Auxiliary Loan to Assist Students. ALAS is a new federally insured loan program available to graduate students, who may borrow up to $3,000 a year at 14 percent interest. Repayment of the principal is deferred while students are in school full time, but interest payments must be made while enrolled. Since authorized deferments are the same as those for the guaranteed student loan program, a student may continue to pay interest only during the first two years of residency, beginning repayment of both principal and interest following that period. The aggregate indebtedness for graduate students is $15,000 under this program. This loan must be taken at the same bank as the GSL if a student borrows a GSL in New York State. This rule may also apply in other states. Students who are not New York State residents should be able to make an ALAS loan at a bank in New York if they are unable to borrow from their local lender.

Health Education Assistance Loans. HEAL is a federally insured loan program available to students in the health professions. Currently, all HEAL lenders use a promissory note with a variable interest rate. The rate is reassessed quarterly and is calculated by taking the interest rate on the ninety-one day Treasury Bill plus an additional 3½ percent. Interest on this loan begins to accrue immediately. there is a nine-month grace period after graduation. However, if the borrower becomes an intern or resident in an accredited program before that date, repayment will begin from nine to twelve months after the borrower ceases to be an intern or resident. A list of lenders is available from the Federal government.

P&S Dean's Loan. The Dean's loan fund is a program established by the College to offset the burden of high interest loans to students with a high degree of demonstrated financial need. Terms of the loan are available in the Financial Aid Office.

University loan funds are also intended to supplement students' resources when monies are available. Included among these are the following funds:

PETER AMAZON Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, Jr. Used for the assistance of needy students in the medical school.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. Gift of George L. Hawkins, Jr., Class of 1941.

B. H. HOMAN, JR., REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

ROBERT ABBE MACKENZIE Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S, wherever they are in training, or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

JESSIE SMITH NOYES

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in fifteen years; without interest for the first ten years; with 5 percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

ALUMNI ASSOCIATION AWARD Given for outstanding achievement.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher,

and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

JANEWAY PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Dr. HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

EDITH AND DENTON McKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

Dr. HAROLD LEE MEIERHOF MEMORIAL PRIZE Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

NEW YORK ORTHOPEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

Dr. ALFRED STEINER AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

Dr. HAROLD B. STEVELMAN AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

UROLOGY PRIZES Awarded to senior students for the best essays on urological subjects.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of the diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and those who chair the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Fine Arts, Athletics, Community Youth Work, Accessories, Social, and Columbia-Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The

number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Alumni Association

The P&S Alumni Relations Office serves to foster and maintain cordial relationships between the College of Physicians and Surgeons and its alumni and is responsible for alumni relations programs and the Alumni Annual Fund. Liaison with the College is facilitated through the office of the Assistant Dean for Alumni Affairs.

Regular members of the Alumni Association include all those awarded the M.D. or Med.Sc.D. degrees from the College, as well as those awarded the Certificate in Psychoanalytic Medicine. Associate members include faculty members of the College, all house staff members and visiting fellows at hospitals affiliated with P&S, and all Ph.D. graduates of the Basic Sciences Curricula.

The work of the Alumni Association is accomplished through the efforts of its officers and members of the fifteen standing and *ad hoc* committees, all of whom form the constituency of the P&S Alumni Council. Among the important functions of the Association is participation in the publication of P&S, a magazine that is cosponsored by the alumni and the medical school and serves as a major form of communication between the school and its alumni, faculty, students and their parents, and other friends and associates of the College.

Restricted revenues raised by the Alumni Association provide funds for endowed scholarshps at the College of Physicians and Surgeons and toward the endowment of a P&S Alumni Professorship. Unrestricted revenues allow the College flexibility in applying funds to areas of greatest need. Traditionally, a substantial stipend from unrestricted revenues goes to the P&S Club as well as to scholarship aid.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. Through their membership on the Student-Alumni Relations Committee, students and alumni work together in addressing students' needs and concerns.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 2005-C Black Building, 630 West 168th Street, New York, N.Y. 10032. Telephone (212) 694-3498.

The Program of Instruction

The first-year curriculum is largely devoted to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. Each fourth-year student is required to take a one-month elective in ambulatory care which includes clerkship experience in Public Health/Community Medicine. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses (*Abnormal Human Biology, Introduction to the Patient,* and *Psychiatric Medicine I and II*), major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: the First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the

curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss, or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is determined to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass National Board Examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of twelve weeks or less.

Summary of Curriculum (for students entering in September 1982)

First Year

SEPTEMBER 1, 1982, to JANUARY 12, 1983. First semester.

JANUARY 17, 1983, to JUNE 10, 1983. Second semester.

Second Year

SEPTEMBER 1, 1983, through MAY 31, 1984.

Third and Fourth Years

JULY 1, 1984, through APRIL 30, 1986.

Basic Science and Introductory Clinical Courses of the First and Second Years

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastroenterology, Dr. Glickman; Hematology, Dr. Bank; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Ellison; Nephrology, Dr. Al-Awqati; Surgery, Dr. Lo Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy 101F. Microscopic anatomy
Dr. Nunez and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy 102F. Human anatomy
Drs. April, Moss, and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy 103F. Developmental anatomy
Dr. Pfenninger and departmental staff.
Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F—Microscopic anatomy.*

Biochemistry 101F. Introductory biochemistry
Dr. Gold and departmental staff.
Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics 101S. Medical genetics
Dr. William Johnson and associates.
Lectures and clinical presentations emphasizing the practice of clinical genetics and the application of principles of genetics to the medical specialties.

Medicine 101S. Introduction to the practice of medicine
Drs. Canfield, Marcus, and associates.
Lectures, conferences, and seminars addressing ethical and personal issues relevant to the practice of medicine.

Medicine 102S. Introduction to the patient
Dr. Morris and associates.
A series of interdepartmental presentations and demonstrations followed by an intensive four-week preceptorship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student will learn to take a comprehensive medical history and to perform a complete physical examination.

Microbiology 101F. General microbiology
Drs. Erlanger, Ginsberg, and departmental staff.
Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Anatomy-Physiology 106S. Neural science
Drs. Kandel, Kelly, Kupfermann, Rowland, Schwartz, and Spencer.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Nutrition 101F. Introduction to nutrition
Dr. Winick and associates.
Lectures that define the elements of nutrition essential for good health.

Pathology 101F. General pathology
Dr. C. Fenoglio and departmental staff.
Lectures, conferences, and laboratory emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems.

Pathology 102S. Systemic pathology
Dr. C. Fenoglio and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies to elucidate the pathogenesis of findings in disease.

Pathology 103S. Neuropathology
Dr. Duffy and associates.
Lectures, demonstrations, and microscopic studies of diseases of the nervous system.

Pharmacology 101S. General and special pharmacology
Dr. Kahn and departmental staff.
Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Medicine 105F. Physician-patient relationship
Dr. Park and associates.
Preceptor sessions emphasizing the central role of the physician-patient relationship in the practice of medicine and the importance of the effects of health care organization and other factors on that relationship.

Physiology 101F. Human physiology
Dr. Nocenti and departmental staff.
Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry 101F. Psychiatric medicine, I
Dr. Arkow and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Psychiatry 102S. Psychiatric medicine, II
Dr. Arkow and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health 101F. Structure of health care systems
Dr. Rosenberg and associates.
Lectures and seminar groups on the current organization of health care.

Public Health 102F. Epidemiology
Dr. Paneth and associates.
Lectures and seminars to present epidemiological principles.

Public Health 103F. Biostatistics
Dr. Fleiss and associates.
Lectures on the basic elements of biostatistics applicable to medicine.

Public Health 104F. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year

Anesthesiology 201. Clinical clerkship in anesthesiology
Dr. Bendixen and staff at the Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannikin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannikin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe indications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis, and treatment of local anesthetic drug toxicity.

Dermatology 201.
Dr. Harber and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Loeb and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology 201. Clinical clerkship in neurology
Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology 202. Neurosurgery
Dr. Stein and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Obstetrics and Gynecology 201. Clinical clerkship in obstetrics and gynecology
Dr. Vande Wiele and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology 201. Clinical clerkship in ophthalmology
Dr. Campbell and staff.

Orthopedic Surgery 201. Clinical clerkship in orthopedic surgery
Dr. Garcia and staff at the Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology 201. Clinical clerkship in otolaryngology
Dr. Abramson and staff at the Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics 201. Clinical clerkship in pediatrics
Dr. Katz and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Psychiatry 201. Clinical clerkship in psychiatry
Dr. Malitz and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology 201. Diagnostic radiology (medical)
Dr. Seaman and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Seaman and staff.

Rehabilitation Medicine 201.
Dr. Downey and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Surgery 201. Clinical clerkship in surgery
Dr. Reemtsma and staff at the Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery 202. Lectures and demonstrations in surgical pathology
Drs. C. Fenoglio, Lane, and staff at the Presbyterian Hospital.
Included in *Surgery 201.*

Urology 201. Clinical clerkship in urology
Dr. Olsson and staff.
During the clinical clerkship in urology students learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

Fourth Year

Interdepartment 301. Ambulatory care/public health selective
Dr. C. Ortiz-Neu, course coordinator.
Each student in the fourth year is required to select an elective in ambulatory care, which includes clerkship experience in Public Health/Community Medicine. (For the rest of the Fourth Year see page 43 and the elective catalogue.)

Special Programs

M.D.-Ph.D. Program

This is a cooperative program sponsored by the Graduate School of Arts and Sciences and the College of Physicians and Surgeons for students who have had a strong undegraduate program in science and have a strong commitment to biomedical research. The program allows students to work toward the Ph.D. degree in one of the disciplines listed below in addition to earning the M.D. degree.

Students who wish to participate in the program must be admitted to the College of Physicians and Surgeons and to the Graduate School of Arts and Sciences. Separate applications must be made to the College of Physicians and Surgeons and to the Graduate School of Arts and Sciences.

Students complete the basic science requirements of the medical program and enter a participating department of the Graduate School to carry out the Ph.D. program. They then complete the balance of the requirements for the M.D. degree.

The participating Ph.D. programs are:

Anatomy and Cell Biology
Biochemistry
Biological Sciences
Chemistry
Epidemiology
Human Genetics and Development
Mathematical Statistics
Microbiology
Nutrition
Pathology
Pharmacology
Physics
Physiology
Psychology

For additional information students should write to Dr. David Schachter, Chairman, Graduate Biomedical Sciences Advisory Committee, Department of Physiology, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

To apply, students should request an application from the Graduate School of Arts and Sciences and an application from the College of Physicians and Surgeons.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the health care delivery system and the technological, social, and political forces that contribute to the problems and patterns of illness, medical care, and delivery of services. They also develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student uses vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student registers concurrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degrees may be awarded simultaneously at the end of the fourth year; either degree may be awarded separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y., 10032, or the Dean's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Programs in Physical Therapy and Occupational Therapy

Educational programs are offered by the Department of Rehabilitation Medicine to students who have already earned a bachelor's degree. They may apply for admission to a two-year program leading to the Master of Science degree in physical therapy or occupational therapy, or a second professional Master of Science degree in occupational therapy education or occupational therapy administration. Details are given in the bulletin of Programs in Physical Therapy and Occupational Therapy.

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program Subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or the equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director, Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Clinical Genetics

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Program in Clinical Genetics, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics offers fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Program in Clinical Genetics, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881-1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Dean's Award for Outstanding Contributions to Teaching* was inaugurated in the mid-1970s as an appropriate way to recognize faculty members who are notably effective as teachers or leaders in education.

Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with the resident's specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of two years of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of comprehensive and oral examinations, and submission of a dissertation.

Departments of Instruction

Listed are only those faculty appointments and promotions approved by July 1, 1982.

The designation "also" is used with the name of an individual holding a joint appointment in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in." In either case, the name appears in both departmental lists.

Anatomy and Cell Biology

Professor and Chairman

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

Professors

Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938, Ph.D., Minnesota, 1942*
Karl H. Pfenninger. *M.D., Zurich, 1971*
Virginia M. Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor,1956; Ph.D., Columbia, 1960*

Adjunct Professors

Manfred Otto Nahmmacher. *Ph.D., Giessen (Germany), 1960*
Samuel Rosner. *M.D., Royal College of Physicians and Surgeons (Edinburgh), 1940; F.I.C.S., 1951*

Professor of Clinical Surgery

Bard Cosman. *B.A., Columbia, 1952; M.D., 1955*

Associate Professors

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Stephen B. Doty (in Orthopedic Surgery). *B.A., Rice, 1961; M.A., 1963; Ph.D., 1965*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*

Adjunct Associate Professor

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Kansas, 1956*

Associate Professor of Clinical Pathology

Arline D. Deitch. *B.A., Brooklyn, 1944; M.A., Columbia, 1946; Ph.D., 1954*

Assistant Professors

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*
Craig H. Bailey (in Psychiatry and the Center for Neurobiology and Behavior). *B.A., Lehigh, 1967; M.S., 1969; Ph.D., 1973*
Halina Den (in Neurology). *B.S., Frankfort, 1949; M.S., New York University, 1954; Ph.D., Michigan, 1958*
Abraham B. Eastwood (in Neurology). *B.S., Muhlenberg, 1965; M.S., Lehigh, 1967; Ph.D., 1971*
James P. Kelly. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Marie-France Maylie-Pfenninger. *Baccalaureate, Algiers, 1960; L. èsSc., Marseilles, 1963; Docteur de Specialité, 1967; Ph.D., 1972*
Tuan Duc Pham (also Pharmacology). *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M.Phil., Ph.D., Columbia, 1975*
Taube Pearl Rothman. *B.A., City College, 1969; Ph.D., Cornell, 1975*
Samuel Mark Schacher (in Psychiatry and the Center for Neurobiology and Behavior). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*
Klaudiusz R. Weiss (also Psychiatry) (in Dentistry) (in the Center for Neurobiology and Behavior). *M.A., Warsaw, 1967; Ph.D., State University of New York (Stony Brook), 1973*

Adjunct Assistant Professor

Robert Bowker (in Psychiatry). *B.S., Springfield, 1969; V.M.D., Pennsylvania, 1973; Ph.D., 1979*
Ian Blair Fries. *B.A., Columbia, 1964; M.D., 1968*

INSTRUCTOR
Sharon C. Colacino, Ph.D.

LECTURER
Cheryl F. Dreyfus, Ph.D.

SENIOR STAFF ASSOCIATES
Diane L. Sherman, B.S.
Ira Wallis, Ph.D.

STAFF ASSOCIATE
Brian John Oldfield, Ph.D.

Anesthesiology

Professor and Chairman

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

Professors

Mieczyslaw Finster (also Obstetrics and Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (also Pharmacology). *M.B., National Central (Nanking), 1944*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Associate Professors

Allen I. Hyman (also Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Associate Clinical Professor

Jen-Tieng Wung. *M.D., Taipei Medical College, 1956*

Associate Professors of Clinical Anesthesiology

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*

Assistant Professors

Jeffrey Askanazi. *B.S., Worcester Polytechnic Institute, 1971; M.D., State University of New York (Syracuse), 1975*
Keith J. Bernstein. *B.A., New York University, 1968; M.D., State University of New York (Downstate), 1974*
Walter A. Boyle III. *B.S., California State (Long Beach), 1973; M.D., California (San Francisco), 1977*
Richard Y.Z. Chen. *M.D., National Taiwan (Taipei), 1971*
Arvin H. Chin. *B.S., Cornell, 1970; M.D., 1974; J.D., Columbia, 1981*
Paul Dalecki. *B.S., State University of New York (Buffalo), 1973; M.D., New York Medical College, 1976*
Michael C. Damask. *B.A., Case Western Reserve University, 1970; M.D., Chicago Medical School, 1974*
Foun-Chung Fan. *M.D., Taipei Medical College (Taiwan), 1972*
Arthur Donald Finck. *B.S., Lafayette, 1968; M.D., Columbia, 1972*
Ingrid Anne-Marie Fitz-James. *B.A., Sarah Lawrence, 1973; M.D., Columbia, 1977*
Warren K. Grodin. *B.A., Minnesota, 1967; M.D., London, 1975*
Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Pat J. Martin. *B.S., Columbia, 1970; M.D., 1974*
Eugene Ornstein. *M.S., Polytechnic Institute of Brooklyn, 1973; Ph.D., 1977; M.D., Miami (Florida), 1979*
Leila M. Pang (also Pediatrics). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*
Richard K. Raker. *B.A., Michigan, 1969; M.D., 1973*
David M. Richlin. *B.A., Drew, 1970; M.D., New Jersey College of Medicine and Dentistry, 1974*
Stanley H. Rosenbaum (also Medicine). *B.A., Columbia, 1967; M.A., Harvard, 1969; M.D., Cornell, 1973*
Jeffrey Sherman. *B.A., State University of New York (Downstate), 1973; M.D., New York Medical College, 1978*

Yvonne Vulliemoz. *M.S., Lausanne, 1956; Ph.D., Paris, 1969*
Sook Young Woo. *B.S., Ewha Women's University (Seoul), 1968; M.D., 1972*

Assistant Professors of Clinical Anesthesiology

Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Kathryn A.W. Cozine. *M.D., Johns Hopkins, 1961*
Ellise S. Delphin. *B.A., Barnard, 1971; M.D., Columbia, 1975*
Alber Faltas. *M.D., Kasr-El-Ainy Medical School (Egypt), 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
Ina Lieberman. *B.A., Barnard, 1964; M.D., New York University, 1968*
Dudley D. McDaniel. *B.A., Miami (Ohio), 1971; M.D., Autonoma (Mexico), 1975*
Peter Salgo. *B.A., Columbia, 1971; M.D., 1975*
Kevin B. Sanborn. *B.S., Manhattan, 1969; M.D., New York University, 1973*
Medhat Riad Wassef. *M.B., B.Ch., Cairo, 1957*
Gerald S. Weinberger. *M.D., New York University, 1948*
Marcelle M. Willock. *B.A., New Rochelle, 1958; M.D., Howard, 1962*
Joseph Chuan-Shih Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

RESEARCH ASSOCIATES
Salha S. Daniel, Ph.D.
Ira Rampil, M.S.
Atsutoshi Tsuji, M.D., Ph.D.

RESEARCH ASSOCIATES
(continued)
Mariagnes Verosky, B.A.
Alvin Wald, Ph.D.

STAFF ASSOCIATES
James C. Dooley, M.A.
Carol Pantuck, B.A.
Jeffrey M. Wagner, M.A.

At Mary Imogene Bassett Hospital

Associate Clinical Professor

Andrew L. Rauscher. *M.B., London, 1963; M.B.B.S., University College Hospital, 1966*

Assistant Clinical Professor

Edward Palmer. *B.A., Dartmouth, 1967; M.D., Cornell, 1971*

At Harlem Hospital

Associate Professor of Clinical Anesthesiology

Herbert G. Cave. *B.A., College of the City of New York, 1942; M.D., Howard, 1947*

Assistant Professors of Clinical Anesthesiology

Mita Dhruvkumar Gunderia. *B.S., Wilson College (Bombay), 1970; M.D., Grant (Bombay), 1976*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Gilbert Phanor. *B.S., Lycee T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Madisetti Swamy. *M.B., B.S., Osmania (India), 1954*
J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1964*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

Assistant Clinical Professors

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

At Overlook Hospital

Assistant Clinical Professors

John Rocco Calabro. *B.S., Manhattan, 1971; M.D., New Jersey College of Medicine and Dentistry, 1975*
Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*
Mary Louise White. *B.S., Maryland, 1943; M.D., 1945*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Sami A.M. Abadir, M.D.
Jane deV. Stark, M.D.
Carol E. Zimmerman, M.D.

At St. Luke's–Roosevelt Hospital Center

Associate Professor

Louis Blancato. *B.S., Fordham, 1942; M.D., New York Medical College, 1945*

Assistant Professors of Clinical Anesthesiology

Ennio Gallozzi. *M.D., Rome, 1953*
Joseph Iacovelli. *B.A., Buffalo, 1952; M.D., Bologna, 1958*

Assistant Clinical Professors

Ronald A. Andree. *B.A., Miami (Ohio), 1955; M.D., Case Western Reserve, 1959*
Aino Tuul. *M.D., Tartu (Estonia), 1942*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY

Guglielmina Bettini, M.D.
Hilda S. Liu, M.D.
Alfred T.C. Peng, M.D.
Altragracia H. Polanco, M.D.

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Julio M. Garcia Rodriguez, M.D.
Byung Yang Kim, M.D.
Zdan J. Korduba, M.D.
Han Ghiang Lee, M.D.
Ignacio U. Ngo, M.D.
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Biochemistry

Robert Wood Johnson, Jr., Professor and Chairman

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Robert F. Goldberger. *M.D., New York University, 1958*
Dezider Grunberger (also Public Health). *M.Sc., Technical (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*
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Jade Li, Ph.D.
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Susanna Yung Kwong, M.S.
James Pachence, Ph.D.
Thomas Allen Pressley, Ph.D.
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Zacharias Dische, M.D., (in Ophthalmology)
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At Mary Imogene Bassett Hospital

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Eugene W. Sweeney, M.D.
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Joseph A. Penner, M.D.
Douglas Pravda, M.D.
Joseph S. Shapiro, M.D.
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Arthur Bank (also Human Genetics and Development). *B.A., Columbia, 1956; M.D., Harvard, 1960*
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Rose R. Ellison (in the Cancer Center). *B.A., Barnard, 1943; M.D., Columbia, 1948*
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Rejane S. Harvey (Dickinson W. Richards Professor). *B.A., Vassar, 1939; M.D., Columbia, 1943*
John N. Loeb. *B.A., Harvard, 1957; M.D., 1961*
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Hymie Nossel. *M.B., Ch.B., Cape Town, 1953; Ph.D., Oxon, 1962*

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Benvenuto Pernis (also Microbiology). *M.D., Milan, 1947*
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Donald F. Tapley. *B.S., Acadia, 1948; M.D., Chicago, 1952*
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Professors of Clinical Medicine

Felix E. Demartini. *B.A., Columbia, 1943; M.D., 1946*
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Israel Jaffe. *B.S., New York University, 1947; M.D., Columbia, 1950*
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Professor of Social Medicine

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Clinical Professors

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Melvin B. Weiss. *B.S., Massachusetts Institute of Technology, 1962; M.D., State University of New York (Downstate), 1967*
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Peter Green. *M.B., B.S., Sydney, 1970*
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Robert McConnell. *B.A., Hamilton, 1969; M.D., Columbia, 1973*
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Richard V. Sims III. *B.A., Amherst, 1970; M.D., Harvard, 1974*
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Juan G. Edreira. *M.D., Havana, 1951*
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Michael F. Parry *B.A., Yale, 1966; M.D., Columbia, 1970*
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John J. Gregory. *B.S., Worcester Polytechnic Institute, 1953; M.D., Albany, 1961*

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Donald F. Kent. *B.A., Pennsylvania, 1935; M.D., 1940*
Richard N. Podell. *B.A., Amherst, 1964; M.D., Harvard, 1969*

Assistant Clinical Professors

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Stephen J. Fischl. *B.A., Seton Hall, 1963; M.D., College of Medicine and Dentistry of New Jersey, 1967*
Robert A. Fuhrman. *B.A., Clark, 1962; M.D., Chicago, 1966*
Mary T. Herald. *B.A., New Rochelle, 1965; M.D., New Jersey College of Medicine and Dentistry, 1969*
William A. Tansey III. *B.A., Yale, 1966; M.D., Columbia, 1970*
William N. Toth. *B.S., Georgetown, 1956; M.D., Hahnemann, 1960*
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Robert B. Case. *B.A., Ohio Wesleyan, 1953; M.D., Columbia, 1958*
Peter R. Holt. *B.Sc., Tolington, 1949; M.B., B.S., London, 1954*
Gerald B. Phillips. *B.A., Princeton, 1946; M.D., Harvard, 1948*
William Rosner. *B.A., Wisconsin, 1954; M.D., Albert Einstein, 1961*
Theodore Van Itallie. *B.S., Harvard, 1941; M.D., Columbia, 1945*
Harvey J. Weiss. *B.A., Harvard, 1951; M.D., 1955*

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William S. Clark. *B.S., Dayton, 1934; M.D., St. Louis, 1938*
Stanley Cortell. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*
Michael H. Grieco. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1957*
A. Gregory Jameson. *B.A., Harvard, 1937; M.D., Columbia, 1950*
Richard N. Pierson, Jr. *B.A., Princeton, 1961; M.D., Columbia, 1966*
Miles J. Schwartz. *B.S., Queens (New York), 1947; M.D., New York University, 1961*

Clinical Professors

Albert W. Grokoest. *B.S., Hamilton, 1940; M.D., Columbia, 1943*
Philip H. Henneman. *B.A., Harvard, 1943; M.D., 1946*
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Marianne J. Legato. *B.A., Manhattanville, 1956; M.D., New York University, 1962*
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Microbiology

John E. Borne Professor and Chairman

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Professors

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John J. Di Re. *B.S., McGill, 1953; M.D., George Washington, 1957*
Harold P. Gaetz. *B.S., McGill, 1953; M.D., 1958*
Bozidar Lazaric. *M.D., Belgrade, 1956*
Corazon Sian. *A.A., Santo Tomas (Philippines), 1958; M.D., 1963*

INSTRUCTORS IN CLINICAL PATHOLOGY

Elizabeth Ames, M.D.
Petra Elena P. Banogon, M.D.

INSTRUCTORS (*continued*)

Vijai Katatikarn, M.D.
Rose-Sunitha Thayaparan, M.D.

Pediatrics

Reuben S. Carpentier Professor and Chairman

Michael Katz (also Public Health). *B.A., Pennsylvania, 1949; M.D., State University of New York (Downstate), 1956; M.S., Columbia, 1963*

At Presbyterian Hospital

Professors

R. Peter Altman (Schullinger Professor of Pediatric Surgery) (also Surgery). *B.A., Colgate, 1955; M.S., Rochester, 1958; M.D., New York Medical College, 1961*
Arthur D. Bloom (also Human Genetics and Development). *B.A., Harvard, 1956; M.D., New York University, 1960*
Ralph Dell. *B.A., Pomona, 1957; M.D., Pennsylvania, 1961*
Darryl C. De Vivo (also Neurology). *B.A., Amherst, 1959; M.D., Virginia, 1964*
Welton M. Gersony. *B.A., Syracuse, 1954; M.D., State University of New York (Upstate), 1958*
L. Stanley James (also Obstetrics and Gynecology). *M.D., Otago (New Zealand), 1948*
Robert B. Mellins. *B.A., Columbia, 1948; M.D., Johns Hopkins, 1952*
Sergio Piomelli. *B.A., Liceo Sannazzaro (Naples), 1948; M.D., Naples, 1954*
Myron Winick (Williams Professor; Director, Institute of Human Nutrition). *B.A., Columbia, 1951; M.S., Illinois, 1952; M.D., State University of New York (Downstate), 1956*

Professors of Clinical Pediatrics

Abe Chutorian (also Neurology). *B.A., Manitoba, 1949; B.S., 1952; M.D., 1957*
Arnold R. Gold (also Neurology). *B.A., Texas, 1947; M.S., Florida, 1949; M.D., Lausanne, 1950*
Sylvia P. Griffiths. *B.A., Hunter, 1944; M.D., Yale, 1948*
Jerry C. Jacobs. *B.A., Columbia, 1952; M.D., 1956*
Niels L. Low (also Neurology). *M.D., South Carolina, 1940*
David Shaffer (also Psychiatry). *M.D., London, 1961*
Joe D. Wray (in Public Health). *B.A., Stanford, 1947; M.D., 1952*

Professor of Clinical Psychiatry

H. Donald Dunton. *M.D., Rochester, 1945*

Clinical Professor of Pediatric Psychology

Michael Lewis. *B.A., Pennsylvania, 1958; Ph.D., 1962*

Associate Professors

Nicholas Cunningham (also Public Health). *B.A., Harvard, 1950; M.D., Johns Hopkins, 1955*
Joseph Graziano (also Pharmacology). *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*
William C. Heird. *B.S., Maryville, 1958; M.S., Vanderbilt, 1963; M.D., 1964*
Allen I. Hyman (also Anesthesiology). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Ehud Krongrad. *M.D., Hebrew (Jerusalem), 1965*
Gilbert W. Mellin. *B.S., Bethany, 1945; M.D., Johns Hopkins, 1949*
Akira Morishima. *M.D., Keio (Japan), 1954; P.D., 1961*
John F. Nicholson (also Pathology). *B.A., Vanderbilt, 1955; M.D., 1959*
Pedro Rosso (in Obstetrics and Gynecology and Institute of Human Nutrition). *M.D., Chile, 1966*
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Associate Professor of Pediatric Pharmacology

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Associate Professors of Clinical Pediatrics

Russell S. Asnes. *B.A., Boston, 1959; M.D., Tufts, 1963*
Stephen J. Atwood. *B.A., Dartmouth, 1968; M.D., Albert Einstein, 1972*
Jennifer J. Bell. *B.A., Swarthmore, 1953; M.D., New York University, 1961*
William J. Davis. *B.A., Wilkes, 1961; M.D., Columbia, 1965*
John M. Driscoll. *B.A., Hamilton, 1958; M.D., Bowman Gray, 1962*
Harold E. Fox (also Obstetrics and Gynecology). *M.Sc., Rochester and Oxford, 1972*
Allan Hordof. *B.A., Hobart, 1962; M.D., New York University, 1966*
Anthony Mansell. *B.A. Princeton, 1961; M.D., Ohio State, 1965*
Martin Nash. *B.A., Duke, 1960; M.D., 1964*
Jane Pitt. *B.A., Radcliffe, 1960; M.D., 1964*
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Carl N. Steeg. *B.A., Johns Hopkins, 1958; M.D., New York Medical College, 1962*
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Associate Clinical Professors

Fred Agre. *B.A., Lafayette, 1957; M.D., Duke, 1961*
Robert Appleby. *M.D., Johns Hopkins, 1949*
William A. Bauman. *B.S., Harvard, 1943; M.D., Columbia, 1946*
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Jack Shiller. *B.A., North Carolina, 1947; M.D., Columbia, 1952*
Joseph A. Silverman. *B.A., Princeton, 1952; M.D., Columbia, 1956*

Assistant Professors

Kwame Anyane-Yeboa. *M.D., Ghana, 1972*
Fredrick Bierman. *B.S., Union (Schenectady), 1969; M.D., State University of New York (Downstate), 1973*
Vincent Bonagura (also Microbiology). *B.A., Columbia, 1971; M.D., 1975*
Dennis Davidson. *B.S., St. Lawrence, 1970; M.D., Loyola Stritch School of Medicine, 1974*
Catherine Driscoll. *B.S., Fairleigh Dickinson, 1967; M.D., Medical College of Pennsylvania, 1974*
Candace Jean Erickson. *B.A., George Washington, 1969; M.D., Maryland, 1973*
Gabriel G. Haddad. *B.S., American (Beirut), 1969; M.D., 1972*
Karen Hein. *B.A., Wisconsin, 1960; M.D., Columbia, 1970*
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Joseph S. Levy. *M.D., Hadassah (Israel), 1971*
Adrien Moessinger. *M.D., Lausanne, 1971*
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Assistant Professors of Clinical Pediatrics

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William Gerba. *B.S., Fordham, 1971; M.D., Albert Einstein, 1974*
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Assistant Clinical Professors

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Roger Challop. *B.S., Brooklyn, 1963; M.D., New York Medical College, 1967*
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Marguerite J. Gates. *B.A., Barnard, 1950; M.D., Columbia, 1954*
Gustave Gavis. *B.A., Indiana, 1948; M.D., State University of New York (Downstate), 1952*
Thurman B. Givan, Jr. *B.S., Pittsburgh, 1949; M.D., Columbia, 1953*
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Betty C.M.L. Kuo. *B.A., Vassar, 1959; M.D., Albany Medical College, 1964*
George Lazarus. *B.A., Yale, 1967; M.D., Columbia, 1971*
Dean N. Martin. *B.A., Hofstra, 1959; M.D., Albany Medical College, 1963*
Harriet E. McGurk. *B.A., Radcliffe, 1967; M.D., Albert Einstein, 1973*
Daniel J. Melia. *B.A., Harvard, 1941; M.D., Columbia, 1949*
Harriette R. Mogul. *B.A., Bryn Mawr, 1961; M.D., Albert Einstein, 1965*
Damyanti Moorjani (also Rehabilitation Medicine). *B.S., Bombay, 1953; M.D., Grant (Bombay), 1957*
Stanley Morrison. *B.A., Temple, 1963; M.D., George Washington, 1967*
Herbert Poch. *B.A., Columbia, 1949; M.D., 1953*
Morton H. Rachelson. *B.A., Syracuse, 1946; M.D., Tulane, 1950*
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Malcolm S. Schwartz. *D.O., College of Osteopathic Medicine and Surgery, 1967*
Edith M. J. Kuo-Ying Shen. *M.D., Ludwig-Maximilian (Munich), 1960*

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Gilbert Simon. *B.A., Colgate, 1958; M.D., Rochester, 1962*
William H. Smith. *B.A., Rochester, 1941; M.D., 1944*
Susan Spear. *B.A., Wellesley, 1968; M.D., Columbia, 1972*
David Stiles. *B.A., Harvard, 1940; M.D., 1943*
Martin B. Vita. *B.A., Yale, 1950; M.D., 1954*
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David Wisotsky. *B.S., City College, 1970; M.D., Albert Einstein, 1974*

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Robert A. Hands, M.D.
Alan Kanter, M.D.
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RESEARCH ASSOCIATES

Elizabeth Anisfeld, Ph.D.
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Rajasekhar Ramakrishnan, Sc.D.
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Malathy Singh, Ph.D.

INSTRUCTORS IN CLINICAL PEDIATRICS

Martha L. Amarant, M.D.
Gaya Aranoff, M.D.
Bruce Beeber, M.D.
Betty Chang, M.D.
William J. Chernack, M.D.
Michele Denize, M.D.
Arlene Falk, M.D.
Stanley H. Gilbert, Jr., M.D.

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Patrick Hicks-Hartman, M.D.
Marie B. Keith, M.D.
Michael L. Lapkin, M.D.
Judith Luskin, M.D.
Sylvia Morgan, M.D.
Morton J. Seligman, M.D.
John G. Slater, M.D.
D. Loran Southern, M.D.
Nicki Lynn Timko, M.D.
Mary Versfelt, M.D.

ASSISTANTS IN CLINICAL PEDIATRICS

Alma T. Blitz, M.D.
Kuang Hu Chien, M.D.
Chung Chieng, M.D.
Bernard Etra, M.D.
Rosalinda Rubinstein, M.D.
Susan Skalsky, M.D.
Samuel T. Wilmit, M.D.

SENIOR STAFF ASSOCIATES

Mysore R. Gandhi, M.S.
Carol Seaman, M.S.

STAFF ASSOCIATES

Yelda Aksoy, M.S.
Naomi Bartnoff, M.S.

ASSOCIATES (*continued*)

Mark Chait, B.S.
Ludovici Guarini, M.D.
Michael Koch, Ph.D.
Dorcas Koeningsberger, M.S.
Anita Lustenberger, M.S.
Mary Judith Murphy, M.D.
Catherine Muttart, M.S.
Cheryl L. Nagel, M.S.
Molly L. Nozyce, M.A.
Linda D. O'Neill, M.S.
Robin Schwartz, M.S.
Thomas Soulos, M.S.
Janice A. Stalcup, M.P.H.
Mary E. Steir, M.S.
Phyllis Taterka, M.S.
Sten Vermund, M.D.
Alan Zubrow, M.D.
Christine L. Zucker, M.S.

LECTURERS

Albert Aharon, M.D.
Armond V. Mascia, M.D.
Yaakov Schechter, Ph.D.

SPECIAL LECTURER

James A. Wolff, M.D.

At Mary Imogene Bassett Hospital

Assistant Clinical Professors

Joe H. Cannon. *B.A., Vanderbilt, 1942; M.D., 1945*
Allan Cunningham. *B.A., Yale, 1962; M.D., Western Reserve, 1966*

ASSOCIATES IN CLINICAL PEDIATRICS

Pedro De Alarcon, M.D.
John G. Freehafer, M.D.

At Harlem Hospital

Associate Professor

Margaret Heagerty. *B.A., Seton Hill, 1957; B.S., West Virginia, 1959; M.D., Pennsylvania, 1961*

Associate Professors of Clinical Pediatrics

Wiener Leblanc. *B.S., Haiti, 1950; M.D., 1956*
Gene-Ann Polk. *B.A., Oberlin, 1948; M.D., Woman's Medical College of Pennsylvania, 1952; M.P.H., Columbia, 1958*

Assistant Professors

Ilene Fennoy. *B.A., Stanford, 1968; M.D., California (San Francisco), 1973*
Cleveland M. Moore. *B.A., California (Berkeley), 1971; M.D., Stanford, 1976*
Mark Rapoport. *B.A., M.D., Boston, 1970; M.P.H., Howard, 1973*

Assistant Professors of Clinical Pediatrics

Araceli R. Ancajas. *M.D., Santo Tomas (Phillipines), 1961*
Josephine Kerr. *B.A., Cornell, 1947; M.D., New York University, 1951*
Yusuf M. Khakoo. M.B., B.S., Bombay, 1962

Assistant Professor of Clinical Rehabilitation Medicine

Lucille C. Gunning. *B.A., New York University, 1945; M.D., Woman's Medical College of Pennsylvania, 1949*

Assistant Clinical Professors

David Bateman. *B.A., Wooster, 1968; M.D., Tufts, 1973*
Serge Fenelon. *M.D., Lausanne, 1973*
Vincent E. Hutchinson. *M.B., B.S., West Indies, 1972*
Marguerita A. Silvera. *B.S., Brooklyn, 1969; M.D., Albert Einstein, 1973*
Claudina Y. Wallace. *B.S., Howard, 1963; M.D., 1967*

INSTRUCTORS IN CLINICAL PEDIATRICS

Beverly Anderson, M.D.
Delores J. Gayle-Thompson, M.D.
Anne Hutcheon, M.D.

INSTRUCTORS (*continued*)

Robert Hutcheon, M.D.
Petronella Manning-Alleyne, M.D.
Sheila Lynn Palevsky, M.D.
Rachelle Scott, M.D.

At Morristown Memorial Hospital

Associate Clinical Professors

Stephen Wang. *B.A. Columbia, 1960; M.D., 1964*
Philip R. Ziring. *B.A., New York University, 1958; M.D., 1962*

Assistant Clinical Professors

Martin Cohen. *M.D., State University of New York (Upstate), 1967*
Ella Cummins. *B.A., Smith, 1935; M.D., Albany Medical College, 1939*

Robert Kornblum. *B.A., Columbia, 1958; M.D., State University of New York (Downstate), 1962*
William Lupatkin. *B.S., Columbia, 1965; M.S., 1966; Ph.D., 1970; M.D., Miami (Florida), 1974*
Lawrence M. Skolnick. *B.A., Queens, 1968; M.D., New York University, 1972; M.P.H., North Carolina, 1980*

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Rama Seshamani, M.D.

At Overlook Hospital

Associate Clinical Professors

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Gloria Schrager. *B.A., Brooklyn, 1944; M.D., Woman's Medical College of Pennsylvania, 1948*

Assistant Clinical Professors

Joseph I. Boylan. *B.A., Columbia, 1951; M.D., Yale, 1955*
Fredrick C. Braun, Jr. *B.S., Georgetown, 1951; M.D., Jefferson, 1955*
Howard S. Britt. *B.A., M.D., Boston, 1970*
Burton M. Feinsmith. *B.S., Arkansas, 1949; M.S., Florida, 1951; M.D., Berne, 1961*
Benjamin H. Josephson. *B.S., North Carolina, 1949; M.D., New York Medical College, 1952*
Joseph Kalbacher. *B.S., Yale, 1944; M.D., Cornell, 1946*
John H. Krikorian. *B.A., Yale, 1958; M.D., Bowman Gray, 1963*
Carolkay Lissenden. *B.A., Pennsylvania, 1959; M.D., Woman's Medical College of Pennsylvania, 1964*
Lewis I. Sank. *B.A., Johns Hopkins, 1957; M.D., 1961*
Frederic A. Schulaner. *B.S., Tufts, 1955; M.D., 1959*
Margaret E. Symonds. *M.B., London, 1941; B.S., 1945*

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Paul Avondoglio, M.D.
Arnold N. Constad, M.D.
Paul A. Kearney, M.D.
Barry Lauton, M.D.
Wayne D. Stettler, M.D.
Charles B. Terhune, M.D.
Sandy P. Waran, M.D.

INSTRUCTORS IN CLINICAL PEDIATRICS
Frank P. Frenda, M.D.
Carl H. Herman, M.D.
Alexander R. Horowitz, M.D.
Victor S. Lamberto, M.D.
Bharati S. Mullick, M.D.
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Stanislawa Rosnowski, M.D.
Arvind P. Shah, M.D.
James Sorger, M.D.
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At St. Luke's–Roosevelt Hospital Center

Professor of Pediatrics

Louis Z. Cooper. *B.S., Yale, 1954; M.D., 1957*

Associate Professors of Clinical Pediatrics

Susan G. Gordon. *B.A., Mount Holyoke, 1946; M.D., Howard, 1950*
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Associate Clinical Professor

Helen Rodriguez-Trias. *B.S., Puerto Rico, 1957; M.D., 1960*

Assistant Professor

Elena B. Klein. *M.D., State Institute of Medicine and Pharmacy (Rumania), 1953; Ph.D., Institute of Microbiology (Rumania), 1972*

Assistant Professors of Clinical Pediatric Psychology

Madeline W. Appell. *B.A., Queens (New York), 1962; M.A., 1963*
Jeanne Brooks-Gunn. *B.A., Connecticut College, 1969; Ed.M., Harvard, 1970; Ph.D., Pennsylvania, 1975*
Nathan A. Fox. *B.A., Williams, 1970; Ph.D., Harvard, 1975*

Assistant Clinical Professors

Dennis Allendorf. *B.S., Georgetown, 1965; M.D., New York Medical College, 1970*
Anastasios Anastasiades. *M.D., Athens, 1950*
Robert Antar. *B.S., Brooklyn, 1965; M.D., Louvain (Belgium), 1970*
Saroj Sahgal Bakshi. *M.B., B.S., Government Medical College (India), 1960; M.D., Institute of Postgraduate Medical Education and Research (India), 1969*
Chaya Chakrabarti. *B.Sc., Calcutta, 1963; M.D., 1969*
Herbert I. Cohen. *M.D., Johns Hopkins, 1949*
Gisela T. Dalrymple. *M.D., Woman's Medical College of Pennsylvania, 1951*
Ragabardial R. Dwarka. *B.S., Hebrew (Jerusalem), 1965; M.D., 1969*
Donald L. Feinberg. *B.A., Hamilton, 1945; M.D., New York University, 1949*
Joan M. Flanigan. *B.A., Case Western Reserve, 1962; M.D., 1966*
Fadel M. Hochroth. *B.A., Louisville, 1953; M.D., 1957*
Harry Kimmel. *B.A., St. Andrews (Bucharest), 1940; M.D., Bucharest, 1949*
Katherine Lodyjensky. *M.D., Montreal, 1943*
Neil Lombardi (also Neurology). *B.A., M.D., Boston, 1967*
Monica Ruth Meyer. *B.A., Harvard, 1967; M.D., Case Western Reserve, 1973*
Anthony F. Michel. *M.D., Faculté de Médecine (Haiti), 1956*
Richard Mones. *B.A., Brooklyn, 1967; M.D., New York Medical College, 1971*
Farrokh Sharivar. *M.D., Tehran, 1966*
Shantha Subramaniam. *M.B., B.S., Madras (India), 1962*
Lucy M. Swift. *B.A., Barnard, 1948; M.D., Columbia, 1953*
Phienvit Tantibedhyangkul. *M.D., Mahido (Thailand), 1959; Ph.D., Columbia, 1971*
Sayenna A. Uduman. *D.M.E.S., Kilpauk (India), 1963; M.D., Madras, 1966*
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Shahid Hossenali, M.D.
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Flora Ramirez, M.D.
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INSTRUCTORS (*continued*)

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Christodoulos Iordanou, M.D.
Richard Gary Merkler, M.D.
David Osgood, M.D.
Melanie Rivenzon, M.D.
Michael Glen Teitel, M.D.
Steven Tsoutsouras, M.D.
Brenda Harris Tynes, M.D.

Pharmacology

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Professors

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Frederick G. Hofmann. *B.A., Michigan, 1943; Ph.D., Harvard, 1952*
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Shi-Hsun Ngai (also Anesthesiology). *M.D., National Central (Nanking), 1944*
Michael R. Rosen (also Pediatrics). *B.A., Wesleyan, 1960; M.D., State University of New York (Downstate), 1964*
Wilbur H. Sawyer (Gustavus and Louis Pfeiffer Professor). *B.A., Harvard, 1942; M.D., 1945; Ph.D., 1950*
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Jurg Schneider. *M.D., Basel (Switzerland), 1945*
Sidney Spector (also Anesthesiology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*
Robert M. Weiss. *B.S., Franklin and Marshall, 1957; M.D., State University of New York (Downstate), 1960*

Associate Professors

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Joseph Graziano (in Pediatrics). *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*

Adjunct Associate Professors

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Ira Cohen. *B.A., Columbia, 1969; M.D., Ph.D., New York University, 1974*
Martin M. Winbury. *B.S., Long Island, 1940; M.S., Maryland, 1942; Ph.D., New York University, 1954*

Senior Research Associate

Lance L. Simpson. *B.A., Vanderbilt, 1966; Ph.D., California, 1969*

Assistant Professors

Kenneth Dangman. *B.S., Bucknell, 1971; M.A., M.Phil., Columbia, 1974; Ph.D., 1977*
Peter Danilo, Jr. *Ph.D., Columbia, 1974*
Daniel J. Goldberg (also Neurology). *Ph.D., Yale, 1974*
Jaya Haldar. *M.Sc., Calcutta, 1961; Ph.D., London, 1966*
Douglas N. Ishii (in the Cancer Center). *B.A., Berkeley, 1967; Ph.D., Stanford, 1974*
Alan M. Jeffrey (also Public Health). *B.S., Hull (England), 1966; Ph.D., North Wales, 1970*

Lou Katz (in the Cancer Center). *Ph.D., Wisconsin, 1959*
Tuan Duc Pham (also Anatomy). *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M.Phil., Ph.D., Columbia, 1975*
Richard B. Robinson. *Ph.D., Illinois, 1975*
Steven A. Siegelbaum (in the Center for Neurobiology and Behavior). *Ph.D., Yale, 1978*

Adjunct Assistant Professors

Edward B. Kirsten. *B.S., Fairleigh Dickinson, 1962; M.S., New York University, 1966; Ph.D., City College, 1969*
Lawrence Tilley. *D.V.M., Iowa State, 1969*

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Truman R. Brown, Ph.D.
Pamela Garlick, Ph.D.
Samuel M. Ross, B.E.E. (Electrical Engineering)

SENIOR STAFF ASSOCIATE
Arline Albala, B.A.

STAFF ASSOCIATES
Penelope Altman Boyden, Ph.D.
William Eng, B.S.
Irina Golyakhovsky, Ph.D.
Kenneth W. Hewett, Ph.D.

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Arthur Hoffmeyer, B.S.
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LECTURER
Kwang Soo Lee, M.D.

Physiology

Professor and Acting Chairman

David Schachter. *B.S., New York University, 1946, M.D., 1949*

Professors

Shu Chien. *M.B., National Taiwan, 1954; Ph.D., Columbia, 1957*
Eric R. Kandel (also Psychiatry). *B.A., Harvard, 1952; M.D., New York University, 1956*
Irving Kupfermann (also Psychiatry). *Ph.D., Chicago, 1964*
William L. Nastuk. *B.S., Rutgers, 1939; Ph.D., 1945*
Mero Nocenti. *B.A., West Virginia, 1951; M.S., 1952; Ph.D., Rutgers, 1955*
John P. Reuben (in Neurology). *B.A., Grinnell, 1954; M.S., Rochester, 1956; Ph.D., Florida, 1959*
James H. Schwartz (also Neurology). *B.S., Columbia, 1954; M.D., New York University, 1959; Ph.D., Rockefeller, 1964*

Associate Professors

Qais Al-Awqati (also Medicine). *M.B., Ch.B., Baghdad, 1962*
Martin Blank. *B.S., College of the City of New York, 1954; Ph.D., Columbia, 1957; Ph.D., Cambridge, 1959*
Raimond Emmers. *B.A., East Texas Baptist, 1953; M.A., North Carolina, 1955; Ph.D., Syracuse, 1958*
Michel Ferin (in Obstetrics and Gynecology). *M.D., Louvain, 1964*
Jorge Fischbarg (in Ophthalmology). *M.D., Buenos Aires, 1962; Ph.D., Chicago, 1971*
Claude P. J. Ghez (also Neurology). *B.A., Geneva, 1960; M.D., Harvard, 1964*

Senior Research Associates

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Shunichi Usami. *M.D., Kyoto Prefectural University of Medicine (Japan), 1949; Ph.D., 1957*

Assistant Professors

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STAFF ASSOCIATES

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Robert G. King, B.Sc.
Angeles B. Ribera, Ph.D.
Lily M. Soo, Ph.D.

Psychiatry

Professor of Clinical Psychiatry and Acting Chairman

Sidney Malitz. *B.S., Tulane, 1943; M.D., Chicago Medical School, 1946*

At New York State Psychiatric Institute

Professors

Eric R. Kandel (also Physiology). *B.A., Harvard, 1952; M.D., New York University, 1956*
Donald F. Klein. *B.A., Colby, 1947; M.D., State University of New York (Downstate), 1952*
Irving Kupferman (also Physiology) (in the Center for Neurobiology and Behavior). *Ph.D., Chicago, 1964*
Edward J. Sachar (Lawrence C. Kolb Professor). *B.A., Harvard, 1952; M.D., Pennsylvania, 1956*
Robert L. Spitzer. *B.A., Cornell, 1953; M.D., New York University, 1957*
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Professor of Biochemistry

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Professor of Dentistry

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Professor of Medical Psychology

Samuel Sutton. *Ph.D., Chicago, 1955*

Professor of Neuropathology

Leon Roizin. *B.A., State Lyceum (Bessarabia), 1930; M.D., Royal (Milan), 1936*

Professor of Public Health

Denise Kandel (Sociomedical Sciences). *Ph.D., Columbia, 1960*

Professor of Social Sciences

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Professors of Clinical Psychiatry

Gene G. Abel. *M.D., Iowa, 1965*
H. Donald Dunton (in Pediatrics). *M.D., Rochester, 1945*
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Ronald R. Fieve. *B.A., Wisconsin, 1952; M.D., Harvard, 1955*
Archie R. Foley. *B.A., Queen's (Canada), 1943; M.D., C.M., 1947; M.S., Columbia, 1962*
Lothar Gidro-Franck. *M.D., Columbia, 1948*
Alexander H. Glassman. *B.A., Illinois, 1956; M.D., 1958*
Murray Glusman. *B.S., New York University, 1934; M.D., 1938*
Barry J. Gurland. *M.B., Ch.B., Capetown, 1955*
Joseph Jaffe. *B.A., Columbia, 1944; M.D., New York University, 1947*
Donald S. Kornfeld. *B.S., Franklin and Marshall, 1950; M.D., Yale, 1954*
John D. Rainer (in Human Genetics and Development). *M.D., Columbia, 1951*
James H. Ryan. *B.A., Yale, 1952; M.D., Harvard, 1956*
David Shaffer (also Pediatrics). *M.D., London, 1961*
John Weber. *B.A., Duke, 1939; M.D., Yale, 1943*

Professor of Clinical Psychiatric Epidemiology

Thomas S. Langner (in Public Health). *B.A., Harvard, 1948; Ph.D., Columbia, 1954*

Professors of Clinical Psychology

Anke Ehrhardt. *Ph.D., Dusseldorf, 1969*
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Clinical Professors

Willard Gaylin. *B.A., Harvard, 1947; M.D., Case Western Reserve, 1951*
Roger MacKinnon. *M.D., Columbia, 1950*
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Clinical Professor of Medical Psychology

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Associate Professor of Medical Psychology

Jacques Rutschmann. *D.Sc., Geneva, 1956*

Associate Professor of Neuropathology

Mavis Kaufman (in Pathology). *M.D., New York University, 1944*

Associate Professors of Clinical Neurobiology and Behavior

Thomas J. Carew. *B.A., Loyola (Los Angeles), 1966; M.A., California State (Los Angeles), 1967; Ph.D., California (Riverside), 1970*
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Associate Professor of Clinical Pathology

Liselotte Graf. *M.D., Vienna, 1937*

Associate Professors of Clinical Psychiatry

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Richard A. Gardner. *M.D., State University of New York (Downstate), 1956*
Rodman Gilder, Jr. *M.D., Columbia, 1944*
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Helen C. Meyers. *B.A., Hunter, 1945; M.D., New York University, 1949*

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Seymour Post. *M.D., New York University, 1947*
Daniel Shapiro. *M.D., Illinois, 1945*
Leonard M. Sheehy. *B.A., Harvard, 1960; M.D., McGill, 1968*
Henry I. Spitz. *B.A., Lafayette (Pennsylvania), 1961; M.D., New York Medical College, 1965*
Ralph N. Wharton. *M.D., Columbia, 1957*

Associate Clinical Professor of Medical Psychology

Kenneth Frank. *M.S., Columbia, 1964; Ph.D., 1960*

Associate Clinical Professor of Psychiatric Social Work

Bluma Swerdloff. *D.S.W., Columbia, 1960*

Associate Clinical Professor of Neuropathology

Nicholas Willson. *B.S., St. Peter's (Jersey City), 1959; M.D., New Jersey College of Medicine and Dentistry, 1963*

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Assistant Professors of Biochemistry

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Assistant Professors of Clinical Psychiatry

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David V. Forrest. *B.A., Princeton, 1960; M.D., Columbia, 1964*
David Friedman. *B.A., City University of New York, 1965; M.A., 1968; Ph.D., 1972*
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Madelyn Schwartz Gould. *A.A., Princeton, 1974; M.P.H., Columbia, 1976; M.Phil., 1978*
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Kenneth Greenspan. *M.D., Albert Einstein, 1963*
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Frederick Kass. *B.A., Harvard, 1966; M.D., Johns Hopkins, 1970*
Janos Kurucz. *M.D., Budapest, 1950*

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Steven Paul Roose. *B.A., Harvard, 1970; M.D., Mt. Sinai, 1974*
Lawrence Sharpe. *D.P.M., London, 1961*
Andrew Skodol. *B.A., Yale, 1967; M.D., Pennsylvania, 1971*
Bernard T. Walsh. *B.A., Princeton, 1967; M.D., Harvard, 1972*
Daniel T. Williams. *B.A., Columbia, 1965; M.D., Cornell, 1969*

Assistant Professors of Clinical Psychology

Edward Scott Charles. *B.A., City University of New York, 1965; M.A., 1968; M.A., New School for Social Research, 1974*
Donald J. Dillon. *Ph.D., Fordham, 1955*
Helen Hanesian. *B.S., State University of New York (Buffalo), 1953; M.A., Columbia, 1961; Ed.D., 1966*
Donald E. Hutchings (also Pediatrics). *Ph.D., Columbia, 1965*
Maureen Kanzler. *B.A., Hunter, 1938; M.A., New York University, 1940; M.S., Hunter, 1959; Ph.D., Fordham, 1967*
Stephen E. Karpiak. *Ph.D., Fordham, 1972*
Dolores Kreisman. *B.A., Barnard, 1953; Ph.D., Columbia, 1969*
Isak Prohovnik. *M.Sc., Lund (Sweden), 1980; Ph.D., 1981*
Michael Seth Quittman. *B.A., Queens (New York), 1968; Ph.D., Purdue, 1974*
Cornelis Stokman. *B.A., Nijmegen (Holland), 1962; M.A., Columbia, 1964; Ph.D., 1967*

Assistant Professor of Clinical Psychiatric Social Work

Janet B. Williams. *B.S., Tufts, 1969; M.S., Southeastern Massachusetts, 1972; M.S.W., Columbia, 1974*

Assistant Professors of Clinical Social Sciences

Alexander Askenazy. *Ph.D., Columbia, 1962*
Carol L.M. Caton (in Public Health). *B.S., Columbia, 1962; Ph.D., Yale, 1969*
Muriel Hammer. *Ph.D., Columbia, 1961*

Assistant Professor of Clinical Social Work

Nettie Terestman. *M.S.W., Columbia, 1940; D.S.W., 1963*

Adjunct Assistant Professor of Anatomy and Cell Biology

Robert Bowker. *B.S., Springfield, 1969; V.M.D., Pennsylvania, 1973; Ph.D., 1979*

Adjunct Assistant Professors of Public Health

Judith Rabkin (Epidemiology). *B.A., Wellesley, 1958; Ph.D., New York University, 1967; M.P.H., Columbia, 1974*
Neil Risch (Biostatistics). *B.S., California Institute of Technology, 1972; M.S., Illinois, 1973; Ph.D., California (Los Angeles), 1979*

Assistant Clinical Professors

Syed Abdullah. *M.A., Calcutta, 1961; M.B., 1962*
Harry D. Albert. *B.A., Johns Hopkins, 1962; M.D., 1965*

Morton J. Aronson. *B.A., Temple, 1944; M.D., 1947*
John A. Atchley. *M.D., Columbia, 1944*
Athanasia Balkoura. *M.D., Athens, 1960*
Amiram Barkai. *M.Sc., Hebrew (Jerusalem), 1963; Ph.D., 1970*
Leah Beck. *M.D., Woman's Medical College of Pennsylvania, 1943*
Christian R. Beels. *B.A., Rochester, 1960; M.D., Harvard, 1963*
Robinette Bell. *B.A., Smith, 1951; M.D., Columbia, 1962*
Raymond Bernick. *B.S., Dalhousie, 1956; M.D., 1961*
Stanley Bone. *B.S., Massachusetts Institute of Technology, 1970; M.D., Mt. Sinai, 1974*
Edward N. Brennan. *B.S., Trinity (Hartford), 1951; M.D., Yale, 1955*
Paul F. Califano. *B.A., Adelphi, 1950; M.D., State University of New York (Downstate), 1954*
Robert J. Campbell. *M.D., Columbia, 1948*
Ian Alberto Canino. *B.S., Georgetown, 1966; M.D., Puerto Rico, 1970*
William J. Chambers. *B.A., Princeton, 1967; M.D., Tufts, 1972*
Harvey R. Chertoff. *B.A., Columbia, 1962; M.D., Einstein, 1966*
Stanley J. Coen. *B.A., Columbia, 1958; M.D., 1962*
Frances Cohen. *B.A., Harvard, 1971; M.D., Columbia, 1975*
Max P. Cohen. *M.D., New York Medical College, 1947*
Louise Coleman. *M.D., Southern California, 1948*
Francine Cournos. *B.S., City College, 1967; M.D., New York University, 1971*
DeWitt L. Crandell. *M.D., Arkansas, 1955*
Barbara H. DeBetz. *M.D., Miami, 1970*
Zira De Fries. *M.D., New York Medical College, 1942*
Leonard Diamond. *B.A., Tulane, 1949; M.D., State University of New York (Downstate), 1973*
Richard A. Dickes. *B.A., Columbia, 1963; M.D., Albert Einstein, 1967*
Robert M. Elvolve. *B.A., Michigan, 1962; M.D. Chicago, 1966*
Charles F. Entelis. *M.D., Virginia, 1974*
James W. Flax. *B.A., Antioch, 1971; M.D., Minnesota, 1974*
Gerald I. Fogel. *M.D., Michigan, 1962*
Bruce Forester. *B.A., Dartmouth, 1961; M.D., Columbia, 1965*
Eugene A. Friedberg. *M.D., Buffalo, 1958*
Bimalendu Ganguly. *M.B.,B.S., Calcutta Medical College (India), 1964*
Lee R. Gardner. *B.A., Barnard, 1955; M.D., Columbia, 1959*
Myron R. Gershberg. *B.A., Cornell, 1955; M.A., 1956, M.D., Buffalo, 1960*
Iona Ginsberg. *B.A., Vassar, 1953; M.D., Columbia, 1957*
Richard J. Glavin. *B.A., Cornell, 1951; M.D., Rochester, 1955*
Ana B. Glick. *B.A., Bennington, 1958; M.D., New York Medical College, 1963*
Robert Glick. *B.A., Yale, 1962; M.D., Columbia, 1966*
Edwin Goldstein (in Pediatrics). *B.A., Brooklyn, 1952; M.D., Albany Medical College, 1958*
Lloyd A. Hamilton, Jr. *B.A., Yale, 1950; M.D., Harvard, 1954*
Harvey M. Hammer. *B.A., Cornell, 1956; M.D., New York Medical College, 1960*
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Rose Hartmann. *B.A., New York University, 1937; M.D., Woman's Medical College of Pennsylvania, 1945*
Myra S. Hatterer. *B.A., New York University, 1955; M.D., New York Medical College, 1959*
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Michelle L. Hirsch. *B.S., City College, 1968; M.D., State University of New York (Syracuse), 1973*
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David Iverson. *B.A., Rochester, 1963; M.D., Boston, 1968*
Roberta Jaeger. *B.A., Barnard, 1963; M.D., Columbia, 1966*

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Norman D. Lazar. *M.D., Louisville, 1948*
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William McFarlane. *B.A., Earlham (Indiana), 1965; M.D., Columbia, 1970*
Frederick Mendelsohn. *B.A., Harvard, 1954; M.D., Stanford, 1958*
Michael Milano. *B.A., Harvard, 1960; M.D., Albany Medical College, 1964*
Robert S. Mumford. *M.D., McGill, 1943*
Philip R. Muskin. *B.A., Cornell, 1969; M.D., New York Medical College, 1974*
Joseph C. Napoli. *B.S., State University Of New York (Stony Brook), 1977; D.D.S., Columbia, 1981*
Jaime Nos. *M.D., Valencia (Spain), 1967; M.P.H., Columbia, 1975*
David Douglas Olds. *B.A., Yale, 1960; M.D., Columbia, 1981*
Louis Padovano. *B.S., Georgetown, 1952; M.D., 1956*
Robert P. Parkin. *M.D., Dalhousie (Canada), 1950*
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Kathryn F. Prescott. *M.D., New York University, 1950*
Lyle E. Rosnick. *B.A., Columbia, 1970; M.D., 1974*
Arnold Rothstein. *B.A., Brown, 1958; M.D., Chicago Medical School, 1962*
Boris Rubinstein. (also Pediatrics). *B.A., Colegio Israelita (Mexico City), 1961; M.D., Nacional (Mexico), 1970; M.P.H., Harvard, 1974*
Barbara Sacco. *R.N., Mary Immaculate Hospital School of Nursing, 1958*
M. Bruce Sarlin. *B.A., M.D., Tulane, 1957*
Irene B. Seeland. *M.D., Heidelberg, 1965*
Lawrence Shaderowfsky. *B.A., Chicago, 1956; M.D., New York Medical School, 1960*
Edward M. Shelley. *B.A., Columbia, 1960; M.D., State University of New York (Downstate), 1958*
Charles Siegal. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1958*
Frieda H. Spady. *B.S., Columbia, 1963; M.D., New York Medical College, 1967*
Jerome Steiner. *B.A., Chicago, 1949; M.A., 1951; M.D., State University of New York (Downstate), 1962*
Jonathan W. Stewart. *B.A., Swarthmore, 1967; M.D., Yale, 1971*
Diane L. Stone. *B.A., Pennsylvania, 1966; M.D., Columbia, 1970*
Ann R. Turkel. *B.A., Barnard, 1947; M.D., Albany Medical College, 1952*
Gloria M. Warner. *M.D., New York University, 1959*
Martin Weiler. *B.A., Syracuse, 1949; M.A., Columbia, 1951; M.D., Chicago Medical School, 1954*
Richard M. Weiss. *M.D., State University of New York (Downstate), 1960*
Josef H. Weissberg. *M.S., Albany Medical College, 1952*
George H. Wilkie. *M.D., Harvard, 1957*
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Assistant Clinical Professor of Pediatrics

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Assistant Clinical Professor of Pediatric Psychology

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Dennis Shulman. *B.A., Brandeis, 1972; Ph.D., Harvard, 1976*
Eric H. Singer. *Ph.D., New York University, 1975*
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ASSOCIATES IN CLINICAL PSYCHIATRY

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Arthur R. Jacobs, M.D.
Naomi Leiter, M.D.
Virginia Lozzi, M.D.
George Luhrmann, M.D.
Ira L. Mintz, M.D.
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RESEARCH ASSOCIATES

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Anita K. Fischer, Ph.D.
Mitchell L. Kietzman, M.D.
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ASSOCIATES (*continued*)

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Herbert L. Thornhill. *B.S., Pittsburgh, 1951; M.D., Howard, 1955*

Associate Clinical Professor

Yasoma B. Challenor. *B.A., Hunter, 1959; M.D., State University of New York (Downstate), 1963*

Assistant Professor of Clinical Rehabilitation Medicine

Lucille C. Gunning (in Pediatrics). *B.A., New York University, 1945; M.D., Woman's Medical College of Pennsylvania, 1949*

Assistant Clinical Professor

Wanda Brodzka. *M.D., Academy of Medicine (Warsaw), 1954*

ASSOCIATE IN CLINICAL REHABILITATION MEDICINE

Louise Weiss, M.D.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY

Thomas Abraham, M.B.B.S.
Joseph A. Malloy, M.D.

ASSISTANTS IN CLINICAL REHABILITATION MEDICINE

Ivan T. Donev, M.D.
Harriett Minor, M.A.
Iluminado C. Nebab, M.D.
Sandhya E. Zarapkar, Intermediate Sci.

ASSISTANTS IN CLINICAL PHYSICAL THERAPY

Felicita E. Clare, B.S.
Diane L. Waithe, M.A.

At Helen Hayes Hospital

Assistant Professors of Clinical Rehabilitation Medicine

Arun Kuman Bhattacharyyan. *Intermediate Sci., Bangabasi (Calcutta), 1950; M.D., Nilratan Sirca Medical College (Calcutta), 1955*
Sally Wisely. *B.A., Radcliffe, 1955; M.D., Columbia, 1967*

Assistant Clinical Professor

Rodolfo L. Reyes. *M.D., Santo Tomas (Philippines), 1952*

INSTRUCTOR IN CLINICAL PHYSICAL THERAPY
Barbara D. Hanley, M.S.

ASSISTANT IN CLINICAL REHABILITATION MEDICINE
Wen-Ling L. Fan, M.D.

At Morristown Memorial Hospital

ASSOCIATE IN CLINICAL REHABILITATION MEDICINE
John J. Kraus, M.D.

At St. Luke's–Roosevelt Hospital Center

Assistant Clinical Professor

Lucille T. Pai. *M.D., Woman's Christian Medical College (Shanghai), 1941*

ASSOCIATE IN CLINICAL REHABILITATION MEDICINE
Ravi Raj Malpe, M.B., B.S.

Occupational Therapy

Associate Professor

Barbara Neuhaus (acting director of program). *B.A., Keuka, 1950; O.T.R., Columbia, 1952; M.A., Columbia, 1960; Ed.D., 1980*

Assistant Professors of Clinical Occupational Therapy

Adele C. Germaine. *B.A., Connecticut College, 1969; M.S., O.T.R., Columbia, 1970*
Gordon Williamson. *B.A., Emory, 1968; M.S., Columbia, 1970; M.Phil., 1976; Ph.D., 1978*

ASSOCIATES IN CLINICAL OCCUPATIONAL THERAPY
Margaret Ann Brown, M.A.
Simme Cynkin, M.S.
Schone Pang, M.S.

INSTRUCTORS IN CLINICAL OCCUPATIONAL THERAPY
Janet Falk-Kessler, M.A.
Patricia A. Miller, M.A.
Roberta Roth, M.S.W.

ASSISTANT IN CLINICAL OCCUPATIONAL THERAPY
Laurelee Hawkins, B.S.
Frances Kraver, B.S.

Physical Therapy

Associate Professors

Ruth Dickinson (director of program). *B.S., Russell Sage, 1944; M.A., Columbia, 1947*
Althea M. Jones. *B.S., Panzer College of Physical Education, 1944; M.A., Columbia, 1972*

Associate Professor of Clinical Physical Therapy

Bernadette Hecox. *B.S., Columbia, 1968; M.A., 1973*

Assistant Professor

Thomas J. Schmitz. *B.S., State University of New York (Buffalo), 1972; M.S., Boston, 1974*

Assistant Professor of Clinical Physical Therapy

Mary Joan Day. *B.S., St. Louis, 1961; M.S., Pennsylvania, 1972*

ASSOCIATES IN CLINICAL PHYSICAL THERAPY

Theodore Corbitt, M.A.
Patricia Sullivan, M.A.

INSTRUCTORS IN CLINICAL PHYSICAL THERAPY

Margaret Beyda, B.S.
Anne Hinricks, M.Ed.
Marion Marx, M.A.

INSTRUCTORS (*continued*)

Georgia Reidel, B.S.
Paul Ribera, M.A.

ASSISTANTS IN CLINICAL PHYSICAL THERAPY

Linda Arslanian, B.S.
Andre Deloya, B.A.
Susan Makris Durfee, B.S.
Ann B. Edgar, B.S.

ASSISTANTS (*continued*)

Barbara Freeman, B.S.
Pamela Harris, B.S.
Cindy Hirsch, M.S.
James Kruse, M.S.
Lindi Oberon, B.S.
Ellen O'Neill, M.A.
Jeanine Paxton, B.S.
Joan E. Thomas, B.S.

Surgery

Valentine Mott Professor and Johnson and Johnson Distinguished Professor and Chairman

Keith Reemtsma. *B.S., Idaho State, 1945; M.D., Pennsylvania, 1949*

At Presbyterian Hospital

Professors

R. Peter Altman (Schullinger Professor of Pediatric Surgery) (also Pediatrics). *B.A., Colgate, 1955; M.S., Rochester, 1958; M.D., New York Medical College, 1961*
Frank Gump. *B.A., Harvard, 1951; M.D., New York University, 1955*
David V. Habif (Morris and Rose Milstein Professor). *B.S., Columbia, 1936; M.D., 1939*
Mark A. Hardy. *B.A., Columbia, 1958; M.D., Albert Einstein, 1962*
Frederic P. Herter (Hugh Auchincloss Professor). *B.A., Harvard, 1941; M.D., 1944*
Thomas C. King. *B.A., Utah, 1950; M.D., 1954; M.A., Missouri, 1963*
John M. Kinney. *B.A., Denison, 1943; M.D., Harvard, 1946*
John B. Price, Jr. *M.A., Texas, 1948; M.D., Johns Hopkins, 1950*

Professor of Pathology

Soldano Ferrone. *M.D., Milan (Italy), 1964; Ph.D., 1971*

Professor of Clinical Pathology

Nicole Suciu-Foca. *B.S., Bucharest (Rumania), 1954; M.S., 1960; Ph.D., 1965*

Professors of Clinical Surgery

Harold G. Barker. *B.A., Utah, 1939; M.D., Pennsylvania, 1943*
Frederick O. Bowman, Jr. *B.A., North Carolina, 1948; M.D., Pennsylvania, 1952*
Bard Cosman (in Anatomy and Cell Biology). *B.A., Columbia, 1952; M.D., 1955*

Carl R. Feind. *B.A., Texas, 1940; M.D., Columbia, 1950*
James R. Malm. *B.A., Princeton, 1949; M.D., Columbia, 1956*
Alfred M. Markowitz. *B.A., New York University, 1948; M.D., Washington (St. Louis), 1952*
Arthur B. Voorhees, Jr. *B.A., Virginia, 1943; M.D., Columbia, 1946*

Clinical Professor

Bashir Ahmad Zikria. *B.S., George Washington, 1954; M.D., Johns Hopkins, 1958*

Associate Professors

David Bregman. *B.A., New York University, 1961, M.D., State University of New York (Downstate), 1965*
Paul Lo Gerfo. *B.S., Rensselaer Polytechnic Institute, 1961; M.S., 1963; M.D., State University of New York (Upstate), 1967*
Henry M. Spotnitz. *B.A., Harvard, 1962; M.D., Columbia, 1966*

Associate Professors of Clinical Surgery

Joseph A. Buda. *B.A., Columbia, 1951; M.D., Cornell, 1955*
Kenneth Forde. *B.S., College of the City of New York, 1954; M.D., Columbia, 1959*
Ivo P. Janecka. *M.D., Charles (Prague), 1965*
Alfred Jaretzki III. *B.A., Harvard, 1941; M.D., 1944*
Frederick R. Randall. *B.S., Howard, 1942; M.D., 1945*
Francis C. Symonds, Jr. *B.A., Princeton, 1947; M.D., Columbia, 1951*

Associate Clinical Professors

Robert G. Bertsch. *B.A., Carleton, 1953; M.D., Columbia, 1957*
Charles W. Findlay. *B.A., Yale, 1939; M.D., Columbia, 1943*
David M. Ju. *M.D., National Medical College (Shanghai), 1944; Med.Sc.D., Columbia, 1954*
Sven Kister. *B.A., Dartmouth, 1955; M.D., Harvard, 1958*
George C. Peck. *B.A., Johns Hopkins, 1949; M.D., Maryland, 1953*
John N. Schullinger. *B.A., Princeton, 1951; M.D., Columbia, 1955*

Associate Professor of Clinical Dentistry

Steven Roser. *B.A., Middlebury, 1964; D.M.D., Harvard, 1968; M.D., 1972*

Senior Research Associate in Biochemistry

David Elwyn. *B.A., Columbia, 1941; Ph.D., 1950*

Assistant Professors

Mary H. McGrath. *B.A., New Rochelle, 1966; M.D., St. Louis, 1970*
Roman Nowygrod. *B.A., Harvard, 1966; M.D., Columbia, 1970*
Eric A. Rose. *B.A., Columbia, 1971; M.D., 1975*
Charles Stoler. *B.A. Washington (St. Louis), 1970; M.D., Georgetown, 1974*
George J. Todd. *B.S., Iona, 1970; M.D., Pennsylvania State, 1974*
Collin J. Weber. *B.A., Princeton, 1967; M.D., Columbia, 1955*

Assistant Professor of Biochemistry

Irving Goodman. *B.A., Colorado, 1939; Ph.D., 1944*

Assistant Clinical Professors

Paul H. Gerst. *B.A., Columbia, 1948; M.D., 1952*
Leif O. Holgersen. *B.A., Taylor, 1960; M.D., New Jersey College of Medicine and Dentistry, 1965*
Peter S. Liebert. *M.D., Harvard, 1962*

RESEARCH ASSOCIATES

Duncan L. McCollester, Ph.D.
Shanta M. Modak, M.D., Ph.D.

INSTRUCTORS IN CLINICAL SURGERY

Vincent W. Ansanelli, M.D.
Robert G. Blabey, M.D.
Harold M. Bruck, M.D.
Sherman M. Bull, M.D.
Howard Greisler, M.D.
Leslie Mark Kutcher, M.D.

INSTRUCTORS (*continued*)

Mark David Sherman, M.D.
Charles A. Slanetz, M.D.
James S. Todd, M.D.
Michael Treat, M.D.

SENIOR STAFF ASSOCIATES

Jerome Martin Dubroff, M.D.
Rita Lipton, B.A.

STAFF ASSOCIATES

Narihito Kuromoto, M.D.
Esther Meyer, M.A.

SPECIAL LECTURERS

William A. Gardner, M.D.
Thomas Santulli, M.D.
Philip D. Wiedel, M.D.

LECTURERS

Shivaji B. Bhonslay, M.D.
George Escher, M.D.

WRITER-IN-RESIDENCE

Harry Schwartz, Ph.D.

At Mary Imogene Bassett Hospital

Professor of Clinical Surgery

David A. Blumenstock. *B.A., Union (Schenectady), 1949; M.D., Cornell, 1953*

Clinical Professor

John E. Olson (in Urology). *B.A., Kansas, 1953; M.D., 1956*

Associate Clinical Professor

Rodman D. Carter (in Urology). *B.A., Harvard, 1950; M.D., Columbia, 1954*

Assistant Professors of Clinical Surgery

James Bordley IV. *B.A., Yale, 1965; M.D., Columbia, 1970*
Patrick Allen Dietz. *B.A., Holy Cross, 1966; B.M.Sci., Dartmouth, 1968; M.D., Harvard, 1970*
Roger W. MacMillan III. *B.S., Trinity, 1961; M.D., Columbia, 1965*

Assistant Clinical Professors

Edward J. Carey, Jr. *B.A., Harvard, 1954; M.D., Cornell, 1958*
Webster J. Stayman. *B.S., St. Lawrence, 1966; M.D., Jefferson, 1970*

At Harlem Hospital

Associate Professor of Clinical Surgery

Barbara Barlow. *B.A., New York University, 1946; D.D.S., Columbia, 1950; M.D., 1953*
Harold P. Freeman. *B.A., Catholic, 1954; M.D., Howard, 1958*

Associate Clinical Professors

David M. Carberry. *Ph.D., Providence, 1947; M.D., Jefferson, 1951*
Harold A. Garnes. *B.S., College of the City of New York, 1944; M.D., Howard, 1951*
Robert F. Morton. *M.D., Meharry, 1944*
John W. Parker, Jr. *B.A., Fisk, 1942; M.D., Meharry, 1945*

Assistant Professor of Otolaryngology

Lee David Eisenberg. *B.S., St. John's (New York), 1967; M.D., State University of New York (Downstate), 1971*

Assistant Professors of Clinical Surgery

Ganepola A. Ganepola. *B.S., Kyoto, 1966; M.D., 1967*
Mohamad H. Parsa. *B.S., Tehran, 1957; M.D., 1963*

Assistant Clinical Professors

Salvatore G. Cinque. *B.S., College of the City of New York, 1943; M.D., Loyola, 1946*
Rajunder P. Gandhi. *M.B.B.S., Institute of Medicine (Mandalay), 1966*
James E.C. Norris. *B.A., Hampton Institute, 1953; M.D., Case Western Reserve, 1957*
Ruben Oropeza. *B.S., Mexico, 1948; M.D., 1955*
Carlton E. Patrick. *M.D., University of the Saar (Hamburg, Germany), 1957*

Assistant Clinical Professor of Neurological Surgery

Robert W. Schick. *B.A., Columbia, 1948; M.D., New York Medical College, 1952*

ASSOCIATES IN CLINICAL SURGERY

Matthew D. Branche, M.D.
Urbano K. Guarin, M.D.
Malcolm Moley, M.D.
Pierre G. Van Bockstaele, M.D.

INSTRUCTORS IN CLINICAL SURGERY

Deodatta V. Bendre, M.D.
Alden G. Cockburn, M.D.
Egel Francois, M.D.
Robert Leon Gibson, M.B.B.S. (Orthopedic Surgery)

INSTRUCTORS (*continued*)

Edoardo Giuliani, M.D.
Robert W. Holtzman, M.D.
Avtar S. Josen, M.D.
Barnett Miller, M.D.

INSTRUCTOR IN CLINICAL NEUROSURGERY

George V. DiGiacinto, M.D.

INSTRUCTORS IN CLINICAL ORTHOPEDIC SURGERY

William L. King, M.D.
Caleb Medley, M.D.
Bruce P. Meinhard, M.D.

INSTRUCTOR IN CLINICAL OTOLARYNGOLOGY

Ellsworth Frye, M.D.

INSTRUCTOR IN CLINICAL UROLOGY

Rex O. Ajayi, M.D.
Arthur Rouse, M.D.

ASSISTANT IN CLINICAL NEUROLOGICAL SURGERY

Michael Rapak, M.D.

ASSISTANT IN CLINICAL SURGERY

Roger Antoine, M.D.

At Morristown Memorial Hospital

Associate Clinical Professor of Surgery

Ames Lawrence Filippone. *B.A., Cornell, 1950; M.D., 1953*

At Overlook Hospital

Clinical Professor

Richard W. Brenner. *B.A., Princeton, 1954; M.D., Columbia, 1958*

Associate Clinical Professors

David Befeler. *B.A., Columbia, 1955; M.D., 1959*
Bruce J. Brener. *B.A., Yale, 1962; M.D., Harvard, 1966*
Robert Specht. *B.A., Princeton, 1944; M.D., Columbia, 1946*

Assistant Clinical Professors

John H. Cooper. *B.S., Lawrence, 1947; M.B.A., Chicago, 1949; M.D., 1954*
Douglas M. Costabile. *B.A., Muhlenberg, 1946; M.D., Geneva, 1951*
John Joseph Hudock. *B.S., Northwestern, 1944; M.D., 1948*
Daniel L. Moore. *M.D., Johns Hopkins, 1958*
John V. Triolo. *M.S., Rochester, 1948; M.D., Long Island College of Medicine, 1941*
Charles J. Wittmann. *B.A., Princeton, 1958; M.D., Pennsylvania, 1962*

ASSOCIATES IN CLINICAL SURGERY

Robert E. Knapp, M.D.
Thomas Logio, M.D.
Charles Loguda, M.D.
Jerrold Lozner, M.D.

ASSOCIATES (*continued*)

Saverio J. Panzarino, M.D.
Morton Perkoff, M.D.
Jerome Spivack, M.D.
E. Bruce Whitesell, M.D.

At St. Luke's–Roosevelt Hospital Center

Professors of Clinical Surgery

J. William Littler. *B.S., Duke, 1938; M.D., 1942*
Richard B. Stark. *B.A., Stanford, 1936; M.D., Cornell, 1941*
Walter Wichern. *B.S., Mount Union, 1942; M.D., Harvard, 1945*

Clinical Professor

W. Graham Knox. *B.A., Columbia, 1939; M.D., 1942*

Associate Professor

John G. Kral. *M.A., Goteberg (Sweden), 1961; M.D., 1967; Ph.D., 1976*

Associate Professor of Microbiology

George A. Hashim. *Ph.D., Columbia, 1967*

Associate Clinical Professors

Richard G. Eaton. *B.S., Franklin and Marshall, 1951; M.D., Pennsylvania, 1955*
Joseph Ford. *B.A., Harvard, 1942; M.D., Columbia, 1945*
George E. Green. *B.S., Yale, 1952; M.D., 1956*
John E. Hutchinson. *B.S., Moorehouse, 1953; M.D., Meharry, 1957*
Robert E. McCabe. *B.A., Williams, 1948; M.D., Cornell, 1953*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Edward G. Stanley-Brown. *M.D., Pennsylvania, 1948*

Assistant Clinical Professors

Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*
Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*
Clayton R. DeHaan. *B.S., Florida, 1949; M.D., Columbia, 1953*
Robert T. Edmonds. *B.A., Harvard, 1946; M.D., Columbia, 1951*
Paul D. Harris. *B.A., Princeton, 1954; M.D., Columbia, 1958*
Conrad G. Lattes. *B.S., Swarthmore, 1958; M.D., Columbia, 1963*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Haroutane A. Mekhjian. *B.S., American (Beirut), 1961; M.D., 1965*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Carl S. Oakman. *B.A., Harvard, 1938; M.D., Tufts, 1943*
William G. Ramey. *B.A., Virginia, 1970; M.D., 1973*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

INSTRUCTORS IN CLINICAL SURGERY

Arnold H. Belgraier, M.D.
Charles R. Blair, M.D.
Gregory W. Brabbee, M.D.
Peter B. Cinelli, M.D.
Hirman Sedwick Cody III, M.D.
John F Crowe, M.D.
Clarence A. Dunn, Jr., M.D.

INSTRUCTORS (*continued*)

Peter B. Fodor, M.D.
Philip E. Gordon, M.D.
Joshua M. Kaplan, M.D.
Richard H. Karpinski, M.D.
John J. Keyser, M.D.
Farid J. Khoury, M.D.
Dianne R. Lorieo, M.D.
Stephen G. Lynn, M.D.

INSTRUCTORS (*continued*)

Richard A. Marks, M.D.
Walter H. Stingle, M.D.
Paul I. Tomljanovich, M.D.
Hiroshi Washio, M.D.
George J. Zambetti, Jr., M.D.

STAFF ASSOCIATE

Mikio Kamiyama, Ph.D.

Urology

John K. Lattimer Professor and Chairman

Carl A. Olsson. *B.A., Bowdoin, 1959; M.D., Boston, 1963*

At Presbyterian Hospital

Professor of Clinical Urology

Ralph J. Veenema. *B.A., Calvin, 1952; M.D., Jefferson, 1945*

Associate Professors

Jerry G. Blaivas. *B.A., Tufts, 1964; M.D., 1968*
Ralph De Vere White. *B.Ch., BAO., University College (Dublin), 1964; M.D., 1970*

Associate Professor of Clinical Pathology

Myron Tannenbaum. *B.A., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

Associate Professors of Clinical Urology

Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

Associate Clinical Professors

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Assistant Professor

Harris M. Nagler. *B.S., Union (Schenectady), 1971; M.D., Temple, 1975*

Assistant Professor of Clinical Pathology

Philip Tomashefsky. *Ph.D., New York University, 1969*

Assistant Professors of Clinical Urology

John D. Birkoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*

Assistant Clinical Professors

Elliot L. Cohen. *B.A., New York University, 1963; M.D., Chicago, 1967*
Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*

ASSOCIATES IN CLINICAL UROLOGY
Leonard J. Rudin, M.D.
Charles E. Umhey, Jr., M.D.

INSTRUCTOR IN CLINICAL UROLOGY
Richard Kroll, M.D.

RESEARCH ASSOCIATE
John Kallos, B.Sc.

STAFF ASSOCIATE
Ralph Buttyan, Ph.D.

At Mary Imogene Bassett Hospital

Clinical Professor of Surgery

John E. Olson. *B.A., Kansas, 1953; M.D., 1956*

INSTRUCTORS IN CLINICAL UROLOGY
Rex O. Ajayi, M.D. (in Surgery)
Bruce MacDonald, M.D.

At Overlook Hospital

Assistant Clinical Professor

Robert R. White. *B.A., Amherst, 1949; M.D., Rochester, 1954*

ASSOCIATES IN CLINICAL UROLOGY

Kenneth L. Day, M.D.
Pascal A. Pironti, M.D.

ASSOCIATES (*continued*)

Joseph S. Ritter, M.D.
Morey Wosnitzer, M.D.

At St. Luke's–Roosevelt Hospital Center

Clinical Professor

Russell W. Lavengood, Jr. *B.A., St. Joseph's (Indiana), 1947; M.D., Louisville, 1951*

Associate Clinical Professors

Manuel Fernandez. *M.D., Coimbra (Portugal), 1956*
Perrin B. Snyder. *B.S., New York University, 1929; M.D., 1933*
Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

ASSOCIATES IN CLINICAL UROLOGY

Arumbi P. Subramaniam, M.D.
Pellegrino J. Tozzo, M.D.

INSTRUCTORS IN CLINICAL UROLOGY

Philip C. Cea, M.D.

INSTRUCTORS (*continued*)

Harry S. David, M.D.
Alfred F. Fretz, M.D.
Waleed G. Maloof, M.D.
Constantine Photos, M.D.
Joseph D. Putignano, M.D.
Alexander Sotiropoulos, M.D.

INSTRUCTORS (*continued*)

Rudolph D. Talarico, M.D.
James W. Vastola, M.D.

ASSISTANTS IN CLINICAL UROLOGY

Abas Rezvani, M.D.
Damir Velcek, M.D.

First-Year Postgraduate Appointments: Class of 1982

Abrams, Elaine. *Presbyterian Hospital, New York, New York.* Pediatrics
Absatz, Michael. *New York University Medical Center, New York, New York.* Surgery/Orthopedics
Adler, Frederick. *University of California Affiliated Hospitals, Davis, California.* Family Practice
Almquist, Robert. *North Carolina Memorial Hospital, Chapel Hill, North Carolina.* Family Practice
Amchin, Jess. *Boston City Hospital, Boston, Massachusetts.* Medicine
Andrew, Susan. *North Carolina Memorial Hospital, Chapel Hill, North Carolina.* Medicine
Beekman, Karen. *Presbyterian Hospital, New York, New York.* Medicine
Bellin, Eran Y. *New England Center Hospital, Boston, Massachusetts.* Medicine
Bernstein, Guy T. *The New York Hospital, New York, New York.* Surgery/Urology
Bezier, Jeffrey. *Bryn Mawr Hospital/Wills Eye Hospital, Philadelphia, Pennsylvania.* Ophthalmology
Birkenbach, Mark. *University of Minnesota Hospitals, Minneapolis, Minnesota.* Pathology
Blades, Edmond. *Case Western Reserve University Hospital, Cleveland, Ohio.* Medicine
Boruchoff, Susan. *George Washington University, Washington, D.C.* Medicine
Brauser, Steven. *Pacific Medical Center-Presbyterian Hospital, San Francisco, California.* Medicine/Anesthesiology
Brenner, Gail. *Beth Israel Hospital, New York, New York.* Obstetrics-Gynecology
Brown, Florence. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Bryk, Eli. *Presbyterian Hospital, New York, New York.* Surgery/Orthopedics
Buchness, Mary. *Case Western Reserve University Hospital, Cleveland, Ohio* Medicine
Burns, Elisa. *Presbyterian Hospital, New York, New York.* Obstetrics-Gynecology
Cammisa, Frank P., Jr. *Presbyterian Hospital, New York, New York.* Surgery/Orthopedics
Campbell, Susan. *Overlook Hospital, Summit, New Jersey.* Medicine/Psychiatry
Cantor, Michael. *The New York Hospital, New York, New York.* Medicine
Cherup, Lori Lyn. *Hospitals of the University of Pittsburgh, Pittsburgh, Pennsylvania.* Surgery
Clair, Darren. *University of California Hospital, Los Angeles, California.* Family Practice
Clinton, Henry. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Cody, William. *University of Colorado Affiliated Hospital, Denver, Colorado.* Surgery
Cohen, Jeffrey. *Presbyterian Hospital, New York, New York.* Surgery
Daly, James. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Danso, Alex. *New Rochelle Hospital, New Rochelle, New York.* Medicine
Dash, Greg. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Surgery/Ear, Nose, Throat
del Alcazar, Carlos. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Delfs, Richard. *Kaiser Foundation Hospital, Santa Clara, California.* Medicine
Deluty, Sheldon. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine/Anesthesiology
Derby, James. *Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire.* Surgery/Ear, Nose, Throat
Deri, John. *University of California Hospitals, San Francisco, California.* Neurosurgery
Dermody, Terence. *Presbyterian Hospital, New York, New York.* Medicine

Devlin, Michael. *Lenox Hill Hospital, New York, New York.* Medicine/Psychiatry
Downey, Susan. *Hospital of the University of Pennsylvania, Philadephia, Pennsylvania.* Surgery
Doyle, Werner. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Surgery
Easton, Jonathan. *New York University Medical Center, New York, New York.* Psychiatry
Endow, Curtis. *Virginia Mason Hospital, Shelton, Washington.* Medicine
Endrizzi, Donald. *Presbyterian Hospital, New York, New York.* Surgery/Orthopedics
Fabiano, Frederic. *Presbyterian Hospital, New York, New York.* Surgery
Fiero, Thomas. *Hershey Medical Center, Hershey, Pennsylvania.* Family Practice
Formichella, Donna. *New England Center Hospital, Boston, Massachusetts.* Surgery
Frank, David. *New York University Medical Center, New York, New York.* Psychiatry
Gilchrist, Ian. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Gomez, William. *St. Vincent's Hospital, New York, New York.* Surgery/Orthopedics
Grant, Gail. *University of California Hospital (affiliated), Irvine, California.* Internal Medicine
Greenberg, Steven. *Presbyterian Hospital, New York, New York.* Medicine
Griswold, Jonathan. *McGaw Medical Center, Northwestern University, Chicago, Illinois.* Flexible/Anesthesiology
Harmon, Valerie. *Presbyterian Hospital, New York, New York.* Pediatrics
Harrington, William. *Presbyterian Hospital, New York, New York.* Pathology
Hart, Craig. *Overlook Hospital, Summit, New Jersey.* Medicine/Radiology
Honig, Peter. *McGaw Medical Center, Northwestern University, Chicago, Illinois.* Medicine
Hutt, Douglas. *Beth Israel Hospital, New York, New York.* Medicine
Jabs, Kathy. *Presbyterian Hospital, New York, New York.* Pediatrics
Jackness, Emily. *Presbyterian Hospital, New York, New York.* Pediatrics
Karasik, Pamela. *George Washington University Hospital, Washington, D.C.* Medicine
Kates, Mandes. *Presbyterian Hospital, New York, New York.* Surgery/Ophthalmology
Kessler, Paul. *Mount Sinai Hospital, New York, New York.* Medicine
Kim, Sandra. *Children's Hospital, San Francisco, California.* Pediatrics
King, Dennis. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Knoll, Charles. *Maimonides Hospital, Brooklyn, New York.* Surgery/Urology
Krauss, Eugene. *Mount Sinai Hospital, New York, New York.* Surgery/Orthopedics
Krug, Joseph H., Jr. *The New York Hospital, New York, New York.* Medicine/Ophthalmology
Levens, David. *Montefiore Hospital Center, Bronx, New York.* Surgery/Orthopedics
Levenson, Risa. *The New York Hospital, New York, New York.* Psychiatry
Licht, Jonathan. *Beth Israel Hospital, Boston, Massachusetts.* Medicine
Lidofsky, Steven D. *University of Colorado Affiliated Hospitals, Denver, Colorado.* Medicine
Linder, Barbara L. *Children's Hospital, Philadelphia, Pennsylvania.* Pediatrics
Low, Julie. *McClean Hospital, Belmont, Massachusetts.* Medicine/Psychiatry
Lustbader, Ian. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine
Lynn, Richard. *University of Michigan Affiliated Hospital, Ann Arbor, Michigan.* Medicine
Marchese, Michael. *Duke University Medical Center, Durham, North Carolina.* Medicine
Margolis, Steven. *New England Deaconess Hospital, Boston, Massachusetts.* Surgery
Markowitz, John. *The New York Hospital, New York, New York.* Psychiatry
Marks, Frances. *Presbyterian Hospital, New York, New York.* Obstetrics-Gynecology
Martin, Steven. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* Medicine
Marzuk, Peter. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* Medicine

Mastropolo, Rosalie. *Presbyterian Hospital, New York, New York.* Medicine
Mazzocchi, Annmarie. *Moses H. Cone Memorial Hospital, Greensboro, North Carolina.* Family Practice
McCormick, Paul. *Presbyterian Hospital, New York, New York.* Surgery/Neurosurgery
Mehalek, Karen. *The New York Hospital, New York, New York.* Obstetrics-Gynecology
Mellstrom, Mark S. *Mayo Graduate School of Medicine, Rochester, Minnesota.* Family Practice
Mercurio, Mark. *Yale-New Haven Medical Center, New Haven, Connecticut.* Obstetrics-Gynecology
Mirski, Anna Marie. *St. Vincent's Hospital, New York, New York.* Medicine
Mitchell, Alfred. *Hartford Hospital, Hartford, Connecticut.* Surgery
Moffat, Gertrude. *Presbyterian Hospital, New York, New York.* Pediatrics
Monasky, Mark. *Geisinger Medical Center, Danville, Pennsylvania.* Surgery
Montgomery, Michael. *University of Texas Southwestern Medical School Affiliated Hospitals, Dallas, Texas.* Medicine
Moscona, Anne. *Mount Sinai Hospital, New York, New York.* Pediatrics
Muller, Adrienne. *Presbyterian Hospital, New York, New York.* Medicine
Norton, Janet E. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* Surgery
Nussbaum, Monte. *Overlook Hospital, Summit, New Jersey.* Family Practice
Oesterling, Joseph. *Johns Hopkins Hospital, Baltimore, Maryland.* Surgery/Urology
Olson, Stephen. *Hennepin County General Hospital, Minneapolis, Minnesota.* Flexible/Surgery
Park, William. *University of California Hospital, Los Angeles, California.* Surgery
Paul, Edward. *The New York Hospital, New York, New York.* Psychiatry
Pennoyer, Marguerite. *Presbyterian Hospital, New York, New York.* Medicine
Perez, Wilfredo. *Mount Sinai Hospital, Miami, Florida.* Surgery/Orthopedics
Phillips, Mark. *New York University-Bellevue Hospital, New York, New York.* Medicine
Plotycia, Steven. *Mercy Hospital, San Diego, California.* Flexible/Ophthalmology
Porder, Joseph. *Mount Sinai Hospital, New York, New York.* Medicine
Price, Helen. *Children's Hospital, Philadelphia, Pennsylvania.* Pediatrics
Quarmby, Robert. *Mary Imogene Bassett Hospital, Cooperstown, New York.* Anesthesiology
Rayport, Stephen. *Montefiore Hospital Center, Bronx, New York.* Medicine/Psychiatry
Rini, Frank. *Overlook Hospital, Summit, New Jersey.* Medicine/Ophthalmology
Robbins, Peter. *New York Hospital, Westchester Division, White Plains, New York.* Psychiatry
Robbins, Philip. *Mount Sinai Hospital, New York, New York.* Surgery/Orthopedics
Rodriguez, Jaime. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine
Rodriguez, Rolando. *The New York Hospital, New York, New York.* Medicine/Neurology
Rosenblatt, Marc. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine/Ophthalmology
Rosenzweig, Seth. *Case Western Reserve University Hospital, Cleveland, Ohio.* Medicine
Roth, Philip. *Children's Hospital, Philadelphia, Pennsylvania.* Pediatrics
Rottman, Jeffrey. *Massachusetts General Hospital, Boston, Massachusetts.* Medicine
Rubenfeld, Marian R. *Hackensack Hospital, Hackensack, New Jersey.* Medicine/Ophthalmology
Ruzal-Shapiro, Carrie. *Presbyterian Hospital, New York, New York.* Pediatrics
Salomone, R. Jerry. *Medical College of Pennsylvania, Philadelphia, Pennsylvania.* Emergency Medicine
Schlaff, Anthony. *Boston City Hospital, Boston, Massachusetts.* Medicine
Schneider, Peter. *Pacific Medical Center—Presbyterian Hospital, San Francisco, California.* Medicine/Anesthesiology

Schulder, Michael. *Montefiore Hospital Center, Bronx, New York.* Surgery/Neurosurgery
Sealfon, Stuart. *Massachusetts General Hospital, Boston, Massachusetts.* Medicine/Neurology
Sehgal, Evan. *George Washington University Hospital, Washington, D.C.* Medicine
Semrad, Carol. *Presbyterian Hospital, New York, New York.* Medicine
Shaffer, David. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery
Shaffer, Nathan. *Boston City Hospital, Boston, Massachusetts.* Medicine
Sharp, Barbara. *Childrens Hospital, San Francisco, California.* Medicine
Sheinbaum, Roy. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine
Sklar, Jeffrey. *University of California (Irvine) Affiliated Hospitals, Irvine, California.* Medicine/Ophthalmology
Skowron, Gail. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Smith, Andre. *Harlem Hospital Center, New York, New York.* Medicine
Smith, Mary. *Brooke Army Medical Center, Fort Sam Houston, Texas.* Surgery
Stevenson, Ellen. *Overlook Hospital, Summit, New Jersey.* Medicine/Psychiatry
Strongin, Jonathan. *Cambridge Hospital, Cambridge, Massachusetts.* Medicine
Sultan, Mark. *Presbyterian Hospital, New York, New York.* Surgery
Susser, Ezra. *Bronx Municipal Hospital Center, Bronx, New York.* Psychiatry
Usatine, Richard. *University of California Hospitals, Los Angeles, California.* Family Practice
Vita, Joseph. *Presbyterian Hospital, New York, New York.* Medicine
Wasserman, Hal. *Presbyterian Hospital, New York, New York.* Medicine
Wellisz, Tadeusz. *New York University Medical Center, New York, New York.* Surgery
Whelan, Richard. *Presbyterian Hospital, New York, New York.* Surgery
Wolff, David. *University of California (Los Angeles) Neuropsychiatric Institute, Los Angeles, California.* Psychiatry
Wolfson, Steven. *Danbury Hospital, Danbury, Connecticut.* Medicine
Yannopoulos, Aris. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery/Orthopedics
Yorke, Eric. *Presbyterian Hospital, New York, New York.* Pediatrics

Student Roster: Class of 1983

Aldea, Peter A. New York, N.Y. *B.A., Columbia, 1975; M.A., Columbia, 1977*
Alonso, Jose, Jr. New York, N.Y. *B.A., Columbia, 1979*
Anderson, Rolf Leon Suffern, N.Y. *B.S., Harvard, 1979*
Arliss, Jeffrey James Locust, N.J. *B.S., Vermont, 1978*
Bar, Michael Henry New York, N.Y. *B.A., Johns Hopkins, 1979*
Baran, Syma Deborah New York, N.Y. *B.A., Barnard, 1979*
Basner, Robert C. New York, N.Y. *B.A., City College (New York), 1974*
Bauer, R. David Elmhurst, N.Y. *B.A., Columbia, 1979*
Beck, Marc Lloyd New Hyde Park, N.Y. *B.A., Clark, 1979*
Ben-Zvi, Jeffrey S. Brooklyn, N.Y. *B.S., Brooklyn, 1979*
Black, Alexander Charlton Wellesley, Ma. *B.S., Harvard, 1979*
Bobella, Stephen Kurt Forked River, N.J. *B.A., Drew, 1979*
Bonner, Matthew Kip New York, N.Y. *B.A., Cornell, 1979*
Boos, Stephen Charles Huntington Sta., N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Boyle, Allyson Bass Berkeley, Ca. *B.A., California (Berkeley), 1975*
Boyle, Thomas Hempstead, N.Y. *B.S., State University of New York (Stony Brook), 1977*
Breidbart, Scott Eric Scarsdale, N.Y. *B.A., Yale, 1976*

Brill, David Alan New York, N.Y. *B.A., Princeton, 1979*
Brungraber, Margaret R. Lewisburg, Pa. *B.A., Princeton, 1979*
Bush, James William Cherry Hill, N.J. *B.A., Rutgers, 1979*
Cahill, Peter duPont Philadelphia, Pa. *B.A., Pennsylvania, 1979*
Camacho, Victor Emanuel Bronx, N.Y. *B.S., Columbia, 1979*
Camerino, Vicki Jean Larchmont, N.Y. *B.A., Dartmouth, 1978*
Camuto, Patricia Mary New Hyde Park, N.Y. *B.A., Hofstra, 1976*
Carpenter, Richard Owen Cedarhurst, N.Y. *B.S., Duke, 1979*
Caselli, Maria Milagros Bergenfield, N.J. *B.A., Columbia, 1979*
Caselli, Richard John Bayside, N.Y. *B.A., Columbia, 1979*
Chalfin, Laura B. Brooklyn, N.Y. *B.A., SUNY (Stony Brook), 1970*
Chen, William Kuang-Yu San Ramon, Ca. *B.A., Columbia, 1978*
Davidson, Peter Killip Rochester, N.Y. *B.A., Haverford, 1977*
Davis, Maris R. *Oswego, N.Y. B.A., Bryn Mawr, 1979*
Davitz, Michael Andrew Samos, N.Y. *B.A., Yale, 1978*
Dillon, John Joseph Yorktown Hts., N.Y. *B.S., Massachusetts Institute of Technology, 1978; M.S., 1979*
Donnenberg, Michael Seth Levittown, N.Y. *B.S., SUNY (Albany), 1979*
Duralde, Xavier A. East Pointe, Ga. *B.A., Harvard, 1979*
Dushay, Kevin Maier Fayetteville, N.Y. *B.A., Brown, 1979*
Eaton, Bradford Hunter Pelham, N.Y. *B.A., Dartmouth, 1979*
Erly, William Kenneth Short Hills, N.J. *B.A., Haverford, 1978*
Feind, Carl Robert Alpine, N.J. *B.S., Antioch, 1979*
Felix, Alan David New Hyde Park, N.Y. *B.A., Haverford, 1979*
Fiorito, Joseph John New York, N.Y. *B.A., Columbia, 1979*
Fisher, Margaret Elizabeth Haddonfield, N.J. *B.A., Princeton, 1979*
Fletcher, Christopher W. Wellesley, Ma. *B.A., Wesleyan, 1978*
Florakis, George James Yonkers, N.Y. *B.A., Columbia, 1979*
Freilich, David Ira Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Friedman, David Paul Bayside, N.Y. *B.A., Columbia, 1979*
Gaines, Alan David Randolph, Ma. *B.S., Massachusetts Institute of Technology, 1979*
Garbowit, David Labe New York, N.Y. *B.S., Union (Schenectady), 1979*
Genecin, Paul Baltimore, Md. *B.A., Princeton, 1977*
Glatt, Aaron Eli Brooklyn, N.Y. *B.A., Yeshiva, 1979*
Gliedman, Paul R. Wallkill, N.Y. *B.S., Manhattan, 1979*
Goldberg, Neal Benjamin Hartsdale, N.Y. *B.A., Johns Hopkins, 1979*
Goldman, Myla P. Bronx, N.Y. *B.A., Pennsylvania, 1979*
Goldschmidt, Howard Zvi Flushing, N.Y. *B.A., Columbia, 1979*
Goldstein, Michael D. Smithtown, N.Y. *B.S., SUNY (Stony Brook), 1979*
Gomez-Carrion, Yvonne Brooklyn, N.Y. *B.A., Princeton, 1979*
Gonzalez, Christopher Lewis Claremont, Ca. *B.A., Pitzer, 1979*
Gonzalez, Victoria Mary New York, N.Y. *B.A., California State (San Francisco), 1979*
Green, Nancy Sue Newton, Ma. *B.S., Tufts, 1979*
Gutowski, Teddy Forest Hills, N.Y. *B.A., Queens, (New York), 1979*
Hall, Walter Allan Falls Church, Va. *B.A., Columbia, 1979*
Hanau, Lawrence Huto Bayside, N.Y. *B.A., Columbia, 1979*
Hawke, Mary Wetherill Southampton, N.Y. *B.A., Chicago, 1976*
Hirschfield, Steven I. New York, N.Y. *B.A., Columbia, 1972*
Ingram, David Lloyd Somerset, N.J. *B.A., Columbia, 1979*
Joffe, Mark D. Cherry Hill, N.J. *B.A., Princeton, 1978*
Jones, Leon D. Rome, N.Y. *B.A., Dartmouth, 1979*
Kalb, Thomas Heller Palm Beach, Fl. *B.A., Princeton, 1979*
Kamer, Russell Scott New Rochelle, N.Y. *B.A., Williams, 1979*
Kastelman, James Steven Cranford, N.J. *B.S., Princeton, 1979*
Keller, Wendy A. New York, N.Y. *B.A., Barnard, 1975; M.A., Princeton, 1978*
Klapper, Robert C. New York, N.Y. *B.A., Columbia, 1979*

Koehler, Susan Ellen Clarence, N.Y. *B.A., Mt. Holyoke, 1979*
Konecky, Alan Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Kriger, Alberto Isaac Rio Piedras, P.R. *B.A., Brandeis, 1979*
Landry, Donald William Jersey City, N.J. *B.S., Lafayette, 1975; Ph.D., Harvard, 1979*
Landzberg, Joel Serge Whitestone, N.Y. *B.A., Columbia, 1979*
Lederman, Seth Michael New York, N.Y. *B.A., Princeton, 1979*
Letsou, George Vasilios Lowell, Ma. *B.A., Harvard, 1979*
Linfield, Louis S. II San Francisco, Ca. *B.A., Harvard, 1977*
Loomis, Karen Jay New York, N.Y. *B.S., Yale, 1977*
Lopez, Rafael Roberto New York, N.Y. *B.A., Columbia, 1979*
Luppescu, Neal Edwin Roslyn, N.Y. *B.A., Dartmouth, 1979*
Lustick, Martin Ross Watertown, N.Y. *B.A., Cornell, 1978*
Lytton, William Winzer Scarsdale, N.Y. *B.A., Harvard, 1978*
Macfarlane, Michael Thomas New York, N.Y. *B.A., Long Island (C.W. Post), 1975*
McCord, Mary Marshall New York, N.Y. *B.A., Williams, 1973*
Maloney, William Joseph Glens Falls, N.Y. *B.A., Stanford, 1979*
Mandel, Michael New York, N.Y. *B.A., Columbia, 1979*
Manley, John C. North Port, N.Y. *B.S., California Institute of Technology, 1979*
Matathias, Daniel J. Long Island City, N.Y. *B.A., Columbia, 1979*
Melfi, Robert Joseph Wood-Ridge, N.J. *B.S., Creighton, 1979*
Munro, Virginia Schaefer New York, N.Y. *B.S., Columbia, 1979*
Neuberg, Gerald Walter Tenafly, N.J. *B.A., Princeton, 1979*
Okun, Alexander Lawrence New York, N.Y. *B.S., Yale, 1979*
Ostrow, Steven Mark Baldwin, N.Y. *B.A., Brown, 1979*
Paek, In Bok Flushing, N.Y. *B.A., Barnard, 1979*
Perkins, Archibald Simon Rutherford, N.J. *B.A., Williams, 1979*
Perlmutter, Jeffrey Alan Huntington, N.Y. *B.S., Yale, 1979*
Peterson, Mark William Fort Collins, Co. *B.S., Colorado State, 1979*
Pierson, Richard Norris III Englewood, N.J. *B.A., Princeton, 1978*
Pollak, Emil Martin, Jr. Old Tappan, N.J. *B.A., Dartmouth, 1979*
Pollak, Jeffrey Scott New York, N.Y. *B.A., Columbia, 1979*
Quartararo, Christopher Huntington, N.Y. *B.A., Columbia, 1978*
Quinn, Thomas Joseph Wantagh, N.Y. *B.S., SUNY (Stony Brook), 1979*
Rampil, Ira Jay New York, N.Y. *B.E.S., SUNY (Stony Brook), 1975*
Randolph, Paula Ann New York, N.Y. *B.A., Harvard, 1979*
Retikas, Anthony Demetrios Akron, Oh. *B.A., Johns Hopkins, 1979*
Rice, Louis Bernard Garden City, N.Y. *B.A., Harvard, 1977*
Rich, Thomas Jonathan Flourtown, Pa. *B.S., Bucknell, 1979*
Ring, Wendy Susan Coral Gables, Fl. *B.S., Yale, 1979*
Roberts, William Gary Purchase, N.Y. *B.A., Harvard, 1979*
Rochester, Carolyn Lee Charlottesville, Va. *B.A., Smith, 1979*
Rosenthal, Jonathan Harry New York, N.Y. *B.A., Harvard, 1973*
Rovit, Adam John Scarsdale, N.Y. *B.A., Michigan, 1979*
Sacks, Andrew Jay Brookfield, Ct. *B.A., New College (Florida), 1975*
Sacks, Evan Hilary Flushing, N.Y. *B.A., Brown, 1979*
Saver, Barry Gordon New York, N.Y. *B.S., Yale, 1976*
Schlesinger, Gail Michele Roslyn, N.Y. *B.A., Pennsylvania, 1978*
Schoifet, Scott David Somerset, N.J. *B.A., Cornell, 1979*
Shapiro, Matthew Scott Hewlett, N.Y. *B.A., Cornell, 1979*
Simpson, Joseph Brooklyn, N.Y. *B.A., Brooklyn, 1979*
Smires, Harvey Edward Bellerose, N.Y. *B.A., Harvard, 1979*
Smith, Ann Elizabeth Northport, N.Y. *B.A., Washington, 1979*
Smith, Judith Wilson Greenwich, Ct. *B.A., Princeton, 1979*
Starin, Lawrence Robert Spring Valley, N.Y. *B.Sc., Brown, 1979*
Sullivan, John K. Paramus, N.J. *B.A., Holy Cross (Massachusetts), J.D., Fordham, 1972*
Tannenbaum, Gary Alan Brooklyn, N.Y. *B.A., Dartmouth, 1979*

Thoron, Louisa New York, N.Y. *B.A., Colorado, 1968; M.A., Johns Hopkins, 1971*
Vagelos, Randall Herodotus Watchung, N.J. *B.A., Harvard, 1979*
Van de Wiele, Barbara M. Alpine, N.J. *B.A., Smith, 1977*
Wang, Paul Johnson Indianapolis, In. *B.A., Harvard, 1979*
Wang, Timothy Cragin St. Louis, Mo. *B.A., Williams, 1979*
Wasserman, Marcia Sue New York, N.Y. *B.S., Cornell, 1973*
Weinberger, Michael Laurence Ardsley, N.Y. *B.A., Clark, 1979*
Weinstein, Lee Scott Woodmere, N.Y. *B.S., Massachusetts Institute of Technology, 1979*
Weissman, Jane Lisa New York, N.Y. *B.A., Yale, 1977*
Whitley, Barbara Ellen New York, N.Y. *B.A., Syracuse, 1971*
Widom, Barbara Santa Cruz, Ca. *B.A., Cornell, 1979*
Wilkens, James Burton Toledo, Oh. *B.S., Ohio State, 1979*
Wilner, Philip Jonathan Jamaica Estates, N.Y. *B.A., Columbia, 1979*
Wimpfheimer, Miriam Jane New York, N.Y. *B.A., Yale, 1975*
Winter, Eric Herbert New York, N.Y. *B.A., Harvard, 1979*
Wissler, Richard Norris Canandaigua, N.Y. *B.A., Hamilton, 1974; M.S., Yale, 1976*
Yolowitz, Greg Alan Spring Valley, N.Y. *B.A., Wesleyan, 1979*
Yu, Leonard Tobey New York, N.Y. *B.A., Amherst, 1977*
Zigelman, Charles Z. Woodmere, N.Y. *B.A., Queens (New York), 1979*

Student Roster: Class of 1984

Adkins, Elijah Stanton III Salisbury, Md. *B.A., Princeton, 1980*
Alland, David New York, N.Y. *B.A., Columbia, 1980*
Arato, Michael Plainview, N.Y. *B.S., Union (Schenectady), 1980*
Ashmead, Duffield Philadelphia, Pa. *B.A., Princeton, 1980*
Baez, Ana Luisa New York, N.Y. *B.S., City College, 1980*
Bannister, Kyra Heather Georgetown, Ct. *B.A., Vermont, 1980*
Barasch, Jonathan Matthew New York, N.Y. *B.A., Dartmouth, 1980*
Belisle, James Thompson Babylon, N.Y. *B.S., Cornell, 1979*
Bell, Robin Ellen New York, N.Y. *B.A., Brown, 1975*
Berkower, Alan Stewart Bronx, N.Y. *B.A., Middlebury, 1974; M.S. Yeshiva, 1978; Ph.D., 1980*
Booker, Gaile Michele Jamaica, N.Y. *B.A., Princeton, 1980*
Boschi, Alessandro Sebastian Port Chester, N.Y. *B.A., Columbia, 1980*
Brem, Rachel Frydman New York, N.Y. *B.A., Brandeis, 1979*
Brieff, David Ben Melville, N.Y. *B.A., SUNY (Stony Brook), 1980*
Brittis, Mary Ellen Yonkers, N.Y. *B.S., Columbia, 1980*
Brown, Michael Carlvan Yorktown Heights, N.Y. *B.A., Dartmouth, 1979*
Cardenosa, Gilda New York, N.Y. *B.S., Marymount, 1979*
Chak, Amitabh New York, N.Y. *B.S., Yale, 1978; M.S., 1979*
Chan, Stephen Bronx, N.Y. *B.A., Harvard, 1979*
Chietero, Michael Plainview, N.Y. *B.S., Fordham, 1980*
Christopher, Kenneth Bronx, N.Y. *B.A., Pennsylvania, 1978*
Clain, Michael Russell Great Neck, N.Y. *B.A., Brown, 1980*
Coburn, Kenneth Doyle New York, N.Y. *B.A., Brown, 1980*
Cohen, Sally Eisenberg Ridgewood, N.J. *B.A., Goucher, 1964*
Constantine, Sandra Mequon, Wi. *B.A., Harvard, 1980*
Desser, Terry S. Whitestone, N.Y. *B.A., Princeton, 1979*
Di Franco, Matthew Joaquin New York, N.Y. *B.A., California (Santa Cruz), 1979*
Draga, Aspasia E. Malba, N.Y. *B.A., Barnard, 1980*
Egnor, Michael Robert Catskill, N.Y. *B.A., Columbia, 1980*
Fallon, Regis Francis Pittsburgh, Pa. *B.A., Harvard, 1980*
Fayter, Judith Ann Staten Island, N.Y. *B.S., Pace, 1978*
Fithian, Donald Coburn Bridgeton, N.J. *B.A., Dartmouth, 1980*

Florin, Cynthia Ann New York, N.Y. *B.S., Grinnell, 1976*
Ford, Jean Guillaume Long Island City, N.Y. *B.A., Columbia, 1978*
Freeman, Phillip Sanford North Freeport, N.Y. *B.A., Princeton, 1975*
Gallay, Brian James Yonkers, N.Y. *B.A., Columbia, 1980*
Gewirtz, George Robert Bronx, N.Y. *B.A., Columbia, 1979*
Goldberg, Mark Paul Chicago, Il. *B.A., Harvard, 1980*
Goldstein, Jeffrey Alan Southfield, Mi. *B.A., Harvard, 1980*
Gorton, Christopher P. Nashua, N.H. *B.A., Dartmouth, 1980*
Goyal, Alok Kendal Park, N.J. *B.S., Columbia, 1980*
Graff, Wayne Brian Merrick, N.Y. *B.S., Adelphi, 1980*
Graham, Jeffrey Scott Summit, N.J. *B.A., Williams, 1980*
Greenbaum, Linda Ellen New York, N.Y. *B.A., Harvard, 1980*
Guthrie, Ellen Hobson Hilton Head Island, S.C. *B.A., Colorado, 1980*
Haspel, Kenneth Lewis West Hartford, Ct. *B.A., Pennsylvania, 1980*
Hibbard, Claire Alexandra Scarsdale, N.Y. *B.A., Barnard, 1979*
Hsu, Ho-Wen Timonium, Md. *B.A., Princeton, 1979*
Hyll, Marsha Karin Green Brook, N.J. *B.A., Princeton, 1975*
Ivey, Louis Albert Silver Springs, Md. *B.A., Princeton, 1980*
Jackson, Byron A. Shreveport, La. *B.A., New York University, 1980*
Jeevanandam, Valluvan M. New Milford, N.J. *B.A., Columbia, 1980*
Johnson, Gregory Kent Ridgewood, N.J. *B.A., Dartmouth, 1979*
Johnston, Peter Shivers Stockton, N.J. *B.A., Cornell, 1969; M.A., Columbia, 1972*
Jules, Kethy Marie Elmhurst, N.Y. *B.S., Marymount, 1980*
Kao, Peter Nicholas Pound Ridge, N.Y. *B.A., Harvard, 1979*
Karlin, Scott Marc Greenlawn, N.Y. *B.A., Wesleyan, 1980*
Kaye, Katherine Staten Island, N.Y. *B.A., Princeton, 1980*
Kazim, Michael Riverdale, N.Y. *B.A., Columbia, 1980*
Kellogg, Collins Frederick Croghan, N.Y. *B.A., Hamilton, 1977; M.A., Columbia, 1979*
Kim, Anthony Hyoung Queens, N.Y. *B.A., Yale, 1980*
Kim, Kami Albany, N.Y. *B.A., Harvard, 1980*
Kimball, Robert Owen Geneva, N.Y. *B.S., Cornell, 1979*
Krongrad, Arnon Harrington Park, N.J. *B.A., Columbia, 1980*
Ku, Andrew Bergenfield, N.J. *B.A., Harvard, 1980*
Lang, Thomas Philip Rochester, N.Y. *B.A., Harvard, 1980*
LaScala, Carlo Paul Port Jefferson, N.Y. *B.S., SUNY (Stony Brook), 1980*
Lattimer, Douglas Gary New York, N.Y. *B.A., Columbia, 1975; M.A., Columbia, 1978*
Leibenhaut, Mark Harris Oceanside, N.Y. *B.A., Princeton, 1980*
Levin, Neil Chevy Chase, Md. *B.S.E.S., Tufts, 1980*
Lewis, Allison Elizabeth Menlo Park, Ca. *B.S.E., Princeton, 1980*
Liberman, Laura Newton, Ma. *B.A., Harvard, 1980*
Lombardo, Gregory Thomas New York, N.Y. *B.A., Columbia, 1968; M.A., Columbia, 1980*
Love, Karen Anita Queens Village, N.Y. *B.A., Cornell, 1980*
Luyando, Yvonne New York, N.Y. *B.A., Fordham, 1980*
Ma, Averil I. Thornwood, N.Y. *B.A., Harvard, 1980*
McDonagh, Kevin T. New York, N.Y. *B.A., Columbia, 1980*
Magnes, Jeffrey New York, N.Y. *B.S., Yale, 1975*
Mahon, John Henry Huntington, N.Y. *B.S., Notre Dame, 1980*
Markowitz, Arlene Helen Scarsdale, N.Y. *B.A., Wellesley, 1980*
Mathews, Donald Marshall Schenectady, N.Y. *B.A., Harvard, 1980*
Miller, Steven Zane Rego Park, N.Y. *B.A., Columbia, 1980*
Milrod, Barbara Louise New York, N.Y. *B.S., Yale, 1979*
Modic, Frank Edward Scotia, N.Y. *B.S., Cornell, 1980*
Moss, William John Demarest, N.J. *B.A., Wesleyan, 1980*
Mulvey, Kevin Patrick Los Altos, Ca. *B.S., San Francisco, 1980*

Neustein, Steven Mark West Orange, N.J. *B.S., Massachusetts Institute of Technology, 1980*
Nimkin, Katherine New York, N.Y. *B.A., Cornell, 1978*
Nordli, Douglas Ray Melville, N.Y. *B.S., Haverford, 1980*
Odrich, Marc Geoffrey Bronx, N.Y. *B.A., Columbia, 1980*
O'Keeffe, Richard Michael, Jr. Weston, Ma. *B.A., Dartmouth, 1980*
Olsen, Janet Louise Queens Village, N.Y. *B.A., Vassar, 1978; M.S., Columbia, 1979*
Olson, Eric Jon Chadds Ford, Pa. *B.A., Princeton, 1980*
Oquendo, Maria Antonia Guaynabo, P.R. *B.S., B.A., Tufts, 1980*
Palma, James New York, N.Y. *City College, 1980*
Palmer, Barbara Ann New York, N.Y. *B.A., Barnard, 1979*
Pawlowski, Ann Margaret Lynnfield, Ma. *B.A., Harvard, 1980*
Pearl, Michael Lawrence Southfield, Mi. *B.S., Michigan, 1979*
Peng, Benjamin C. H. Kew Gardens, N.Y. *B.A., Rochester, 1980*
Pero, Robert Thomas Hyde Park, Ma. *B.A., Harvard, 1980*
Proano, Maritza Queens, N.Y. *B.A., Smith, 1980*
Quinn, Brian James Massapequa, N.Y. *B.S., SUNY (Stony Brook), 1979*
Rabbani, LeRoy E. New York, N.Y. *B.A., Harvard, 1980*
Rautenberg, Mark Alan Brockton, Ma. *B.A., Cornell, 1980*
Raymond, Elizabeth Gray Philadelphia, Pa. *B.A., Swarthmore, 1980*
Reilly, Philip Joseph New York, N.Y. *B.S., SUNY (Buffalo), 1976*
Reimold, Andreas Michael N. Canton, Oh. *B.A., Harvard, 1980*
Rennert, Douglas Andrew New York, N.Y. *B.S., Haverford, 1980*
Roberts, James Wayne Jamaica, N.Y. *B.A., Harvard, 1980*
Rodrigues, Beatriz A. Scarsdale, N.Y. *B.A., Barnard, 1980*
Romano, Thomas Jerome Camillus, N.Y. *B.S., SUNY (Buffalo), 1980*
Rottkamp, John Robert Commack, N.Y. *B.S., SUNY (Stony Brook), 1980*
Ruiz, Frank Westbury, N.Y. *B.S., Yale, 1980*
Saladini, Vincent Rocco, Jr. Clifton, N.J. *B.A., Columbia, 1980*
Santos, Annabelle Villatuya Hollis, N.Y. *B.A., Barnard, 1980*
Schmiedeberg, Phyllis N. Babylon, N.Y. *B.A., Johns Hopkins, 1980*
Schoen, Robert Edward Beverly Hills, Ca. *B.A., Columbia, 1979*
Schoenberg, Norman Island Park, N.Y. *B.A., Hofstra, 1980*
Schriger, David Lawrence Englewood, N.J. *B.A., Amherst, 1980*
Schwartzbach, Cary C. Flushing, N.Y. *B.A., Columbia, 1980*
Scuderi, Donna Marie Jamaica Estates, N.Y. *B.S., Adelphi, 1980*
Seymour, Neal Edward Oakdale, N.Y. *B.A., Columbia, 1980*
Shaw, Andrey Shin-Yee Seattle, Wash. *B.A., Columbia, 1979*
Sheffield, Mary Katherine Longmeadow, Ma. *B.S., Massachusetts Institute of Technology, 1980*
Singer, Meriamne Bruche New York, N.Y. *B.A., Yale, 1980*
Somlo, Stefan Bronx, N.Y. *B.A., Harvard, 1980*
Sorensen, Mark Francis Rockville Centre, N.Y. *B.A., Duke, 1980*
Speirs, Robert Thomas Port Washington, N.Y. *B.A., Columbia, 1980*
Spriegel, John R. Evanston, Il. *B.S.E., Princeton, 1978*
Stegall, Mark Dale Crosbyton, Tx. *B.A., Harvard, 1979*
Stork, Philip Jacques Stewart Englewood, N.J. *B.S., Harvard, 1977*
Tamargo, Rafael Jesus Santurce, P.R. *B.A., Princeton, 1980*
Teichman, Faye Brooklyn, N.Y. *B.S., Brooklyn, 1980*
Tilley, Robert John Tacoma, Wa. *B.S., Washington, 1980*
Tong, Dominic J. F. Honolulu, Hi. *B.S., Hawaii (Manoa), 1978*
Torres, Ramon Antonio New York, N.Y. *B.A., New York University, 1980*
Turey, Maureen New York, N.Y. *B.A., Barnard, 1976*
Weber, Pamela Ann Buffalo, N.Y. *B.S., McGill, 1980*
Westermann, Robert Bayless West Hartford, Ct. *B.A., Harvard, 1980*
Westrich, David Joshua New York, N.Y. *B.A., Pennsylvania, 1980*

Whitehurst, James Howell Atlanta, Ga. *B.S., Vanderbilt, 1980*
Whitley, Markus Andrew Bowie, Md. *B.S., Massachusetts Institute of Technology, 1980*
Whitlock, Mary Elizabeth Tenafly, N.J. *B.A., Smith, 1980*
Wiedermann, Joseph Gad Englewood, N.J. *B.A., Harvard, 1979*
Winston, Julia Lynn Oakland, N.J. *B.S., Bucknell, 1979*
Wirth, Robert Lockridge Troy, Mi. *B.S.E., Michigan, 1974; M.S.E., 1975*
Witham, Rebecca Sue Needham, Ma. *B.S., Yale, 1979*
Wong, Shing-Chiu East Elmhurst, N.Y. *B.A., Columbia, 1980*
Wong, Ting Hung Brooklyn, N.Y. *B.S., City College, 1980*
Yancopoulos, George Damis Elmhurst, N.Y. *B.A., Columbia, 1980*
Yen, Catherine Eleanor Honolulu, Hi. *B.S., Hawaii (Manoa), 1979*
Yuen, Jeffrey C. Brooklyn, N.Y. *B.A., Cornell, 1977; M.S., California Institute of Technology, 1978*

Student Roster: Class of 1985

Abis, David Woodbourne, N.Y. *B.S., Cornell, 1981*
Aboody, Linda Rachel Westbury, N.Y. *B.A., Brown, 1981*
Alexander, Joseph James Stockton, Ca. *B.S., California (Davis), 1981*
Aviv, Jonathan Enoch Beverly Hills, Ca. *B.A., Columbia, 1981*
Avner, Jeffrey Ronald Bellerose Manor, N.Y. *B.A., Johns Hopkins, 1981*
Bachner, Evan Jay Syossett, N.Y. *B.A., Pennsylvania, 1981*
Bank, David Eugene Scarsdale, N.Y. *B.A., Yale, 1981*
Baruch, Alice M. New York, N.Y. *B.A., Mount Holyoke, 1974; M.S., New York Medical, 1979; Ph.D., 1981*
Barzel, Eyal Bronx, N.Y. *B.Sc., Brown, 1981*
Bass, Anne Ruth New York, N.Y. *B.A., Harvard, 1981*
Batik, Odette G. New York, N.Y. *B.S., Antioch, 1977; M.P.H., Columbia, 1981*
Baum, Seth Joshua New Rochelle, N.Y. *B.A., Columbia, 1981*
Benardo, Larry Steven Anaheim Hills, Ca. *B.S., California (Irvine), 1977; Ph.D., Stanford, 1981*
Bendixen, Birgitte Holt Irvington, N.Y. *B.A., California (San Diego), 1973; M.A., 1975; C.Phil., 1977; Ph.D., 1980*
Bindelglass, David Fred White Plains, N.Y. *B.A., Harvard, 1981*
Bogosh, Samuel Winston Brookline, Ma. *B.Sc., Harvard, 1981*
Bolo, Peter Michael Grand Blanc, Mi. *B.S., Michigan, 1981*
Brancati, Frederick Louis Dix Hills, N.Y. *B.A., Harvard, 1981*
Branden, Peter John Great Neck, N.Y. *B.S., Johns Hopkins, 1981*
Brennan, John Paul New York, N.Y. *B.A., Haverford, 1975*
Brown, Robin Renee Suitland, Md. *B.S., Maryland, 1981*
Brown, William C. Sparkill, N.Y. *B.S, SUNY (Binghamton), 1981*
Brusco, Louis Yonkers, N.Y. *B.A., Columbia, 1981*
Canning, Robert Babylon, N.Y. *B.A., Columbia, 1981*
Chan, Bernadette New York, N.Y. *B.A., Barnard, 1980*
Chance, John Tighe Rutherford, N.J. *B.A., Williams, 1981*
Chang, Sophia Whasun McLean, Va. *B.A., Amherst, 1981*
Charney, Mark Alan Fullerton, Ca. *B.S., Stanford, 1981*
Coburn, Cynthia Ann New York, N.Y. *B.Sc., Brown, 1980*
Cohen, Seth Aloe Cambridge, Ma. *B.A., Harvard, 1981*
Coman, Eugene Anthony Bronx, N.Y. *B.A., Wesleyan, 1981*
Compaine, Andrew Guy Cherry HIll, N.J. *B.A., Harvard, 1981*
Conde, Miguel Angel New York, N.Y. *B.A., Columbia, 1980*
Crim, Julia Ruth New York, N.Y. *B.A., Oberlin, 1978*
Cushman, James Gordon Camp Hill, Pa. *B.A., Washington, 1981*
Dalak, Gregory Wakeem Staten Island, N.Y. *B.S., Yale, 1981*

Davol, Joan Evers Greenwich, Ct. *B.A., Williams, 1976*
Deutsch, Nicholas Andrew New York, N.Y. *B.A., Columbia, 1981*
Diamond, Lisa Carol New York, N.Y. *B.A., Yale, 1981*
Dickson, David Gordon Lewiston, N.Y. *B.S., Rochester, 1981*
Dirbas, Frederick Mark Brooklyn, N.Y. *B.S., Stanford, 1981*
Downey, Robert John Closter, N.J. *B.Sc., Yale, 1981*
Duberman, Eric David Armonk, N.Y. *B.A., Columbia, 1981*
Edeen, John Kearny, N.J. *B.A., Columbia, 1981*
Ehrlich, Martin Harvey New York, N.Y. *B.A., Rochester, 1973*
Emery, John Matthew Cedarhurst, N.Y. *B.A., Princeton, 1979*
Fallon, Brian Anthony Bellerose, N.Y. *B.A., Harvard, 1976; M.Ed., 1978; M.P.H., Columbia, 1980*
Flock, Timothy Joseph Garden City, N.Y. *B.A., Columbia, 1981*
Freeman, Neil Joshua Scarsdale, N.Y. *B.A., Williams, 1979*
Frend, Jeremy M. New York, N.Y. *B.A., Columbia, 1981*
Frishman, Gary Nathan Armonk, N.Y. *B.A., Pennsylvania, 1980*
Gabrieli, Christopher F.O. Buffalo, N.Y. *B.A., Harvard, 1981*
Geller, Arthur Jay East Brunswick, N.J. *B.A., Columbia, 1981*
Gerst, Steven Richard New York, N.Y. *B.A., Columbia, 1981*
Geurts, Barbara Linda So. Plainfield, N.J. *B.A., Rutgers, 1981*
Gilson, Michael Kenneth Bronx, N.Y. *B.A., Harvard, 1981*
Glassman, Steven David Teaneck, N.J. *B.A., Princeton, 1980*
Gopal, Aasha S. New York, N.Y. *B.A., Columbia 1979; M.Sc., Massachusetts Institute of Technology, 1981*
Gordon, Marc Lawrence Rochester, N.Y. *B.A., SUNY (Buffalo), 1975; M.A., 1976*
Greenberg, Steven Mark Philadelphia, Pa. *B.A., Harvard, 1981*
Gribetz, Richard I. New York, N.Y. *B.A., Columbia, 1975; B.H.L., M.A., Jewish Theological Seminary, 1979*
Grinberg, Manuel Eduardo Roslyn, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
Harding, James Sutherland Toledo, Oh. *B.A., Harvard, 1981*
Hardy, Russell Irving Auburn, Ma. *B.A., Williams, 1978*
Hershey, Mark David Brewster, N.Y. *B.A., Rochester, 1981*
Hill, Terri Lynn Columbia, Md. *B.A., Harvard, 1981*
Hirschhorn, Lisa Ruth New York, N.Y. *B.S., Harvard, 1981*
Hodges, Marian Osborne Larchmont, N.Y. *B.A., Dartmouth, 1979*
Hoffman, Jeffrey Greg Bayside, N.Y. *B.A., Pennsylvania, 1981*
Hong, Roy W. Staten Island, N.Y. *B.A., Brown, 1981*
Housey, Gerard Mitchell Harper Woods, Mi. *B.S., Michigan, 1981*
Hripcsak, George Michael Hicksville, N.Y. *B.S., Haverford, 1981*
Jacobs, Laurie Gail Pleasantville, N.Y. *B.A., Wesleyan, 1981*
Jennis, Andrew Abraham South Orange, N.J. *B.A., Yale, 1981*
Jones, James Irvin New York, N.Y. *B.S., Columbia, 1981*
Jones, Valerie Teresa Montclair, N.J. *B.A., Dartmouth, 1981*
Julien, Juana Maria Hileah, Fl. *B.S., Miami, 1981*
Kaplan, Andrew Howard Melville, N.Y. *B.S., Harvard, 1981*
Kaplan, Bruce Plainview, N.Y. *B.S., Adelphi,* 1981
Kim, Albert Nelson Spring Valley, N.Y. *B.A., Harvard, 1981*
Klumpar, David Ivan Lexington, Ma. *B.Sc., Brown, 1981*
Koeleveld, Robin Frederick Newport News, Va. *B.A., Harvard, 1981*
Kramer, Ethan Douglas Tuscaloosa, Al. *B.A., Vassar, 1981*
Laske, Douglas Walter New York, N.Y. *B.A., Harvard, 1981*
Levine, Nancy E. Setauket, N.Y. *B.S., SUNY (Stony Brook), 1980*
Lin, Christopher Chi-Ching Forest Hills, N.Y. *B.S., Columbia, 1981*
Lloyd, Mary Ann Ellen Danville, Ca. *B.S., San Francisco, 1981*
Lodge, Henry Sears Beverly, Ma. *B.A., Pennsylvania, 1981*

Maddon, Paul Jay Bayside, N.Y. *B.A., Columbia, 1981*
Madsen, Nancy Sue Wethersfield, Ct. *B.S., Bates, 1981*
Markowitz, David Daniel Scarsdale, N.Y. *B.A., Swarthmore, 1981*
Matthew, Thomas Lewis New York, N.Y. *B.A., Harvard, 1981*
McKenzie, Keith B. Jamaica, N.Y. *B.A., Columbia, 1980*
McNulty, John Michael West Nyack, N.Y. *B.S., Columbia, 1981*
Mendez, Leonardo Guaynabo, P.R. *B.S., Yale, 1981*
Meng, Tze-Chiang New Rochelle, N.Y. *B.S., Harvard, 1981*
Morrone, Lee Ellen Lackawaxen, Pa. *B.A., Barnard, 1981*
Moscoso, Juan Francisco Guaynabo, P.R. *B.S., Michigan, 1981*
Navedo, Andres Tadeo Bronx, N.Y. *B.S., Puerto Rico, 1981*
Nunez, Richard Flushing, N.Y. *B.A., Columbia, 1981*
Oddone, Eugene Z. Colorado Springs, Co. *B.S., Denver, 1981*
Ores, David Joseph Leonia, N.J. *B.A., Ohio Wesleyan, 1981*
Pacheco, Elba Milagros Ponce, P.R. *B.A., Wellesley, 1981*
Pak, Wonkyu Sunnyvale, Ca. *B.A., Harvard, 1981*
Pearsen, Kenneth Daniel Rochester, N.Y. *B.A., Pennsylvania, 1981*
Pollock, Roger Gerard Farmingdale, N.Y. *B.A., Yale, 1981*
Radoslovich, Glauco Andrew Cliffside Park, N.J. *B.S., St. Peter's, 1981*
Reiser, Janet Ruth New York, N.Y. *B.A., Columbia, 1981*
Rosen, Beth Alyse Massapequa, N.Y. *B.A., Pennsylvania, 1981*
Rosenblum, Nancy Jamaica Estates, N.Y. *B.Sc., Cornell, 1981*
Ross, Lisa Anne Los Angeles, Ca. *B.A., Harvard, 1981*
Russo, Joseph Richard Huntington, N.Y. *B.S., St. John's (New York), 1981*
Sampson, John George Bronx, N.Y. *B.S., SUNY (Stony Brook), 1981*
Satra, Karin Helene W. Paterson, N.J. *B.A., Rutgers, 1981*
Schweitzer, Jana Tenafly, N.J. *B.A., California (Berkeley), 1981*
Seefeld, William C.R. Chappaqua, N.Y. *B.A., Duke, 1973; O.D., New England College of Optometry, 1977*
Segal, Bruce Arthur Weston, Ma. *B.A., Clark 1981*
Shapiro, Janet Marjorie New York, N.Y. *B.S., Yale, 1981*
Sheiman, Robert Glenn Yonkers, N.Y. *B.S., Columbia, 1980*
Shikora, Scott Alan Bellerose, N.Y. *B.S., Muhlenberg, 1981*
Shlasko, Edward New York, N.Y. *B.A., Oberlin, 1979*
Siderides, Elizabeth Stamford, Ct. *B.A., Harvard, 1981*
Silbey, Mark Bennett Short Hills, N.J. *B.A., Wesleyan, 1979; M.A., Rice, 1981*
Simotas, Alexander C. Alpine, N.J. *B.A., Columbia, 1981*
Slater, Jonathan Allen New City, N.Y. *B.A., Harvard, 1981*
Spector, Paul Joseph New York, N.Y. *B.A., Amherst, 1978*
Stein, Michael David Cliffside Park, N.J. *B.A., Harvard, 1981*
Stopek, Alison Tami Plainview, N.Y. *B.A., Brown, 1981*
Straceski, Anthony Joseph E. Hartford, Ct. *B.A., Harvard, 1981*
Strachan, Alexander New York, N.Y. *B.A., Fordham, 1980*
Summit, Pamela Honey Merrick, N.Y. *B.A., Brown, 1981*
Taterka, James Andrew New York, N.Y. *B.A., Pennsylvania, 1981*
Thadani, Vjay Michael Chevy Chase, Md. *B.A., Princeton, 1976; M.Phil., Yale, 1978; Ph.D., Yale, 1981*
Theise, Neil David W. Hartford, Ct. *B.A., B.A.S., Pennsylvania, 1981*
Tissot, Marc Francis Rego Park, N.Y. *B.A., Queens (New York), 1981*
Touran, Touraj Tehran, Iran *B.A., Princeton, 1981*
Trehu, Stephen Marc Wilmington, De. *B.A., Princeton, 1981*
Valdes, Alfonso Jose Miami, Fl. *B.S., Miami, 1981*
Villegas, Robert Arturo New Hyde Park, N.Y. *B.S., St. John's (New York), 1981*

Walker, Benjamin Harrison New York, N.Y. *B.A., Bowdoin, 1981*
Warren, Wayne Scott Forest Hills, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
Weinthal, Joel Adam Pearl River, N.Y. *B.S., Stanford, 1981*
Weiss, Robert Marc N. Bellmore, N.Y. *B.S., SUNY (Stony Brook), 1981*
Willenbucher, Robert Francis New York, N.Y. *B.S., Rochester, 1981*
Wiltz, Othon San Juan, P.R. *B.S., Johns Hopkins, 1981*
Wohl, Jodie Carol New York, N.Y. *B.A., Brown, 1977*
Wolf, David Cary Livingston, N.J. *B.A., Yale, 1981*
Yarmush, Joel Mann Brooklyn, N.Y. *B.E., Cooper Union, 1977; M.A., Princeton, 1979; Ph.D., Princeton, 1981*
Zeller, Lawrence Ira New York, N.Y. *M.S.W., SUNY (Stony Brook), 1974*
Zuckerman, Alan Miles N. Rochelle, N.Y. *B.A., Harvard, 1981*

Student Roster: Class of 1986

Albanese, Salvatore San Juan, P.R. *B.S., Brandeis, 1982*
Allen, Kevin P. New York, N.Y. *B.A., Columbia, 1982*
Altmann, Dory B. West Orange, N.J. *B.A., Harvard, 1982*
Angel, Jose Manuel Sunnyside, N.Y. *B.S., City College, 1982*
Ashbaugh, Cameron D. Boise, Id. *B.A., Dartmouth, 1982*
Attia, Evelyn Scarsdale, N.Y. *B.A., Princeton, 1982*
Auerbach, Steven B. New York, N.Y. *B.S., Union (Schnectady), 1982*
Aupperle, Peter M. Melville, N.Y. *B.A., Princeton, 1982*
Balmaceda, Casilda M. Ponce, P.R. *B.S., Tufts, 1981*
Bass, Lawrence S. Great Neck, N.Y. *B.A., Cornell, 1982*
Bedichek, Ellen G. Scarsdale, N.Y. *B.A., Middlebury, 1977*
Benton, Anne F. La Jolla, Ca. *B.S., Harvard, 1981*
Boublik, Martin Caldwell, N.J. *B.A., Princeton, 1982*
Boulier, James P. Glen Burnie, Md. *B.E.S., Johns Hopkins, 1982*
Brager, Amy R. Mt. Vernon, N.Y. *B.S., Tufts, 1977*
Bramble, Daniel M. Trinidad, W.I. *B.A., Boston, 1982*
Brevig, Kjetil Orangeburg, N.Y. *B.S., Tufts, 1982*
Brody, Mark R. Somerville, Ma. *B.A., Harvard, 1979*
Bromson, Mark S. Tarrytown, N.Y. *B.A., Harvard, 1982*
Brown, Carol Leslie Los Angeles, Ca. *B.A., Harvard, 1982*
Brown, Steven L. Decatur, Ga. *B.S., Emory, 1981*
Buetow, Peter C. West Islip, N.Y. *B.S., Yale, 1982*
Burke, Steven K. Chestnut Hill, Ma. *B.A., Harvard, 1982*
Cannon, Chris P. Ridgewood, N.J. *B.A., Yale, 1982*
Carroll, Deborah J. New York, N.Y. *B.A., Harvard, 1982*
Carter, Fred M. Garden City, N.Y. *B.A., Cornell, 1982*
Castillo, Jairo E. Astoria, N.Y. *B.A., Queens (New York), 1982*
Castro, Michael P. Baltimore, Md. *B.A., Brandeis, 1979*
Chan, Angela Mei New York, N.Y. *B.A., Barnard, 1982*
Chan, Edward D. Colorado Springs, Co. *B.A., B.S., Colorado, 1982*
Chavez, Camille D. Briarwood, N.Y. *B.A., Cornell, 1977*
Chen, Ming Hui Princeton, N.J. *B.A., Princeton, 1982*
Chester, Janis Gale New York, N.Y. *B.A., Hunter, 1981*
Chow, Franklin T. Northport, N.Y. *B.S., Rochester, 1982*
Civantos, Francisco Coral Gables, Fl. *B.A., B.S., Harvard, 1982*
Clark, Richard D. Denver, Co. *B.A., California (Berkeley), 1969; Ph.D., 1975*
Coelho, Daniel D. Prospect, Ct. *B.A., Pennsylvania, 1982*
Coffey, Tom K. Portland, Or. *B.A., Stanford, 1982*
Cole, Douglas G. Casper, Wy. *B.A., Dartmouth, 1981*
Cooke, Lawrence W. Palatka, Fl. *B.S., Florida, 1982*

Dal Pan, Gerald J. Ridgewood, N.J. *B.A., Princeton, 1982*
Damm, Christopher Mineola, N.Y. *B.A., Harvard, 1980*
Davila, Jose Jorge Rio Piedras, P.R. *B.A, Princeton, 1982*
DeAlleaume, Lauren Albany, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
DeMayo, William M. Ridgewood, N.J. *B.S., Boston, 1982*
Dent, John M. McLean, Va. *B.A., Harvard, 1982*
Diaz, Theresa Orangeburg, N.Y. *B.A., Brown, 1982*
Dominguez, Lourdes New York, N.Y. *B.A., Barnard, 1982*
Donovan, Nancy Jean New York, N.Y. *B.A., Bowdoin, 1978*
Duncan, Susana G. New York, N.Y. *B.A., Cambridge, 1969*
Edwards, Niloo M. New York, N.Y. *B.A., Columbia, 1969*
Ehlert, Ferderick Sheboygan, Wi. *B.S., Marquette, 1982*
Ehrich, Elliot W. Marblehead, Ma. *B.A., Princeton, 1981*
Estabrook, Scott G. Far Hills, N.J. *B.S., Trinity (Connecticut), 1982*
Finkelstein, Michael Roslyn, N.Y. *B.A., Pennsylvania, 1982*
Fisher, Keith D. Oklahoma City, Ok. *B.S., Oklahoma, 1982*
Fradin, Mark S. Buffalo, N.Y. *B.A., Brown, 1981*
Frieden, Thomas R. Larchmont, N.Y. *B.A., Oberlin, 1982*
Friedman, Noah J. Flushing, N.Y. *B.S., SUNY (Binghampton), 1982*
Friedmann, Craig H. New York, N.Y. *B.A., Brandeis, 1975*
Garrity, Michael J. Hingham, Ma. *B.A., Massachusetts (Amherst), 1981*
Gelernt, Mark D. Bronx, N.Y. *B.S., Yale, 1982*
Gilson, Michael F. Cambridge, Ma. *B.S.E., Princeton, 1978*
Gomes, John L. Waltham, Ma. *B.Sc., Brown, 1982*
Gonzalez, Charles J. New York, N.Y. *B.A., Columbia, 1980*
Gordon, Paul Clark Woodbridge, Ct. *B.A., Yale, 1982*
Greenblatt, Eric P. New York, N.Y. *B.S., Michigan, 1982*
Gruen, John P. New York, N.Y. *B.A., Yale, 1976*
Hardy, Stephen P. New York, N.Y. *B.A., Colgate, 1979*
Hartman, Sarah Washington, D.C. *B.S., Tufts, 1977*
Housepian, David M. New York, N.Y. *B.A., Columbia, 1982*
Hyman, Barry Scott New York, N.Y. *B.A., Columbia, 1977*
Jadonath, Ram Lakhan Queens, N.Y. *B.A., Queens (New York), 1982*
Jay, Cheryl Ann Torrance, Ca. *B.S., California (Los Angeles), 1982*
Jicha, Douglas L. Ardsley, N.Y. *B.A., Columbia, 1982*
Johannet, Christopher New York, N.Y. *B.A., Sarah Lawrence, 1977*
John, Joseph A. Bronx, N.Y. *B.Sc., City College, 1982*
Jonassen, Amy E. Locust Valley, N.Y. *B.A., Rice, 1981*
Jones, Sean Eric Seattle, Wa. *B.A., Reed, 1980*
Joseph, Antonio, Jr. Brooklyn, N.Y. *B.S., City College, 1982*
Korner, Judy New York, N.Y. *B.A., Barnard, 1979*
Kraus, Warren M. Valley Stream, N.Y. *B.S., SUNY (Albany), 1982*
Kuester, David J. Woodside, N.Y. *B.A., Wisconsin, 1974*
Kugelmass, Aaron D. Stoors, Ct. *B.A., Columbia, 1982*
Lanier, Diane L. Brooklyn, N.Y. *B.A., Cambridge, 1979*
Leavitt, Robert P. Longmeadow, Ma. *B.S., Trinity (Connecticut), 1982*
Lennon, Paul F. Saddle River, N.J. *B.S., Harvard, 1982*
Lerner, Barron H. University Heights, Oh. *B.A., Pennsylvania, 1982*
Lewin, Julie M. Princeton, N.J. *B.S.E., Princeton, 1982*
Linden, Todd B. North Caldwell, N.J. *B.A., B.Sc., Brown, 1982*
Linskey, Mark E. Somerville, N.J. *B.A., Dartmouth, 1982*
Lopez, Juan A. Plantation, Fl. *B.A., Johns Hopkins, 1982*
Lundblad, James R. Yakima, Wa. *B.S., Stanford, 1981*
Lunt, John G. Saratoga, Wy. *B.A., Colorado, 1980*
Maday, Michael G. Mt. Prospect, Il. *B.A., Knox, 1981; M.A., Columbia, 1982*
Malkani, Arthur L. New York, N.Y. *B.S., Columbia, 1982*

Mandel, Susan J. New York, N.Y. *B.A., Harvard, 1982*
Marco, Alan P. Oakhurst, N.J. *B.A., Johns Hopkins, 1982*
McCormack, Bruce M. Short Hills, N.J. *B.A., Brown, 1982*
Miller, Thomas E. Richmond, In. *Princeton, 1981*
Mitrane, Donald P. North Bergen, N.J. *B.A., Pennsylvania, 1982*
Mitrani, Raul Brooklyn, N.Y. *B.A., Columbia, 1982*
Morales, Susan Pelham, N.Y. *B.A., Harvard, 1982*
Muscat, Paul L. New York, N.Y. *B.A., Columbia, 1982*
Naidu, Rahul K. Skokie, Il. *B.Sc., Stanford, 1982*
Nazarian, Levon N. Englewood Cliffs, N.J. *B.A., Harvard, 1982*
Nields, Jenifer A. Huntington, N.Y. *B.A., Harvard, 1977*
Owen, Heidi M. New York, N.Y. *B.A., Rhode Island, 1976; B.S., 1978*
Park, Edward K. Holbrook, N.Y. *B.A., Harvard, 1981*
Parsons-Armstrong, Susan Sharon Springs, N.Y. *B.A., Kirkland, 1976*
Pearl, Barbara S. New York, N.Y. *B.A., Emory, 1974*
Perese, Deniz A. Buffalo, N.Y. *B.A., Harvard, 1982*
Pernis, Alessandra B. Bronxville, N.Y. *B.A., Barnard, 1981*
Picou, Dian A. Brooklyn, N.Y. *B.S., City College, 1982*
Polsen, Dianne C. New York, N.Y. *B.S., Mercy, 1978*
Rapuano, Christopher Ridgewood, N.J. *B.A., Brown, 1982*
Re, Louis S. Yonkers, N.Y. *B.A., Columbia, 1982*
Rich, Harlan G. Rego Park, N.Y. *B.A., Columbia, 1982*
Roland, Aaron M. Livermore, Ca. *B.A., Yale, 1979*
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Rudolf, Margaret S. New York, N.Y. *B.S., Brown, 1981*
Sable, David B. West Orange, N.J. *B.S., Pennsylvania, 1981*
Saffran, Alan J. Jackson Heights, N.Y. *B.A., Columbia, 1981*
Santoro, Ian H. Dover, Ma. *B.A., Harvard, 1980*
Schwann, Thomas A. South Massapequa, N.Y. *B.A., Columbia, 1982*
Seidner, Elyse L. Philadelphia, Pa. *B.A., Pennsylvania, 1982*
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Slusser, Wendelin M. New York, N.Y. *B.A., Princeton, 1981*
Smith, David A. White Plains, N.Y. *B.A., Harvard, 1965*
Solnick, Jay V. Kansas City, Ks. *B.A., California (San Diego), 1971; Ph.D., North Carolina, 1977*
Stauffer, J. Turner Hamilton, N.Y. *B.A., Dartmouth, 1982*
Strauch, Robert J. New Rochelle, N.Y. *B.A., Columbia, 1982*
Tamman, Richard Short Hills, N.J. *B.A., Johns Hopkins, 1982*
Teltscher, Janet C. Roslyn, N.Y. *B.A., Harvard, 1981*
Thomas, William G. Clinton, Md. *B.S., George Washington, 1982*
Tronolone, William Raritan, N.J. *B.A., Lafayette, 1982*
Turtel, Lawrence S. Melville, N.Y. *B.A., Harvard, 1982*
Warren, Stephen P. Newark, N.Y. *B.A., Dartmouth, 1982*
Watnick, Terry South Orange, N.J. *B.S., Brown, 1981*
Weil, Henry Cooperstown, N.Y. *B.A., Hamilton, 1980*
Weinstein, Toba A. Garden City, N.Y. *B.A., SUNY (Binghamton), 1982*
Weinstock, Ira A. Boulder, Co. *B.A., Williams, 1980*
White, Richard L., Jr. Ithaca, N.Y. *B.A., Cornell, 1982*
Wint, Jeffrey C. New Hyde Park, N.Y. *B.A., Pennsylvania, 1982*
Yonkers, Kimberly A. New York, N.Y. *B.A., Amherst, 1979*

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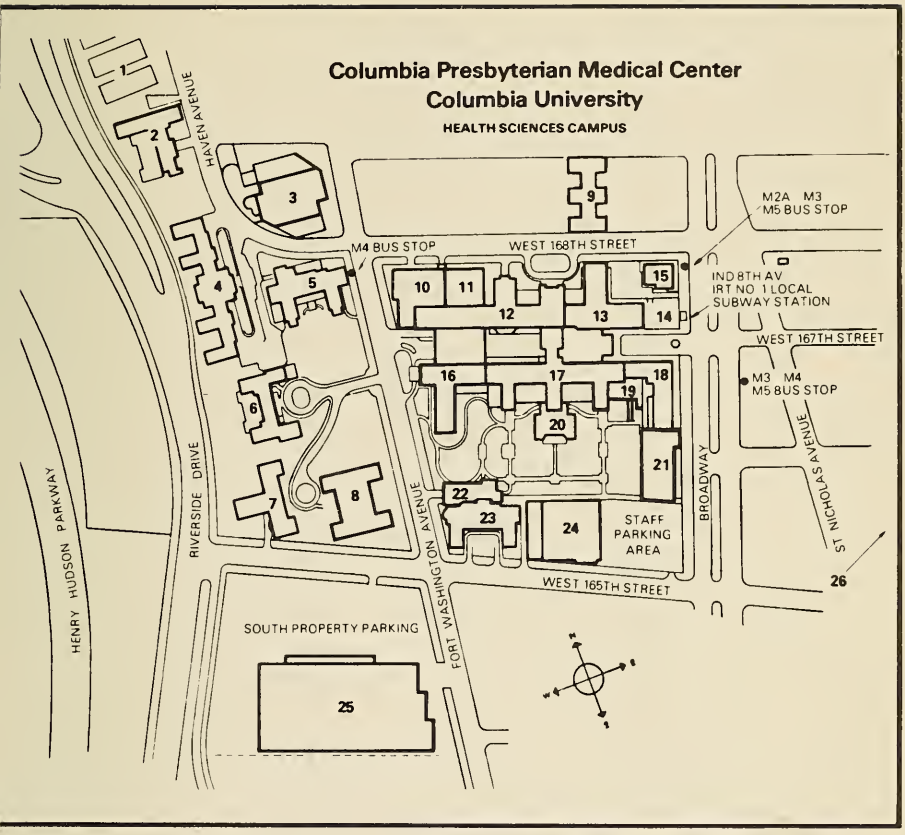

11 Alumni Auditorium
3 Augustus Long Library
8 Dana W. Atchley Pavilion
18 The Babies Hospital
21 Babies Hospital Research, Teaching, and Office Addition
2 Bard Hall Medical Student Residence
1 Bard Haven Towers
10 William Black Medical Research Building
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23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
3 Julius and Armand Hammer Health Sciences Center
3 Institute of Human Nutrition
2/12 International Institute for the Study of Human Reproduction

6 Anna C. Maxwell Hall, School of Nursing Residence
5 The Neurological Institute of New York
6 School of Nursing
25 Parking facilities
17 Presbyterian Hospital
New York Orthopedic Hospital
Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
15 School of Public Health
19 Radiotherapy Center
13 Vanderbilt Clinic
14 Vanderbilt Clinic Addition

The Faculty of Medicine
COLLEGE OF PHYSICIANS
& SURGEONS

Columbia University Bulletin

1983-1984

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Center for Psychoanalytic Training and Research
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Academic Calendar, 1983–1984

Major Religious Holidays

For a statement of University policy regarding religious holidays, see *Admission, Registration, and Expenses*—Regulations.

Some of the major holidays occurring on weekdays are listed below. The Jewish holy days begin at sundown of the preceding day.

Monday or Tuesday, July 11 or 12	Id al Fitr
Thursday, Friday, September 8, 9	Rosh Hashanah
Friday or Saturday, September 16 or 17	Id al Adha
Saturday, September 17	Yom Kippur
Thursday, Friday, September 22, 23	First days of Succoth
Thursday, Friday, September 29, 30	Concluding days of Succoth
Tuesday, Wednesday, April 17, 18	First days of Passover
Friday, April 20	Good Friday
Monday, Tuesday, April 23, 24	Concluding days of Passover
Wednesday, Thursday, June 6, 7	Shavuoth

JUNE

6–17 Monday–Friday.* Registration for Classes of 1984 and 1985.

6 Monday. Academic year begins for Class of 1985.

14–15 Tuesday–Wednesday. NBME I, Class of 1985. Passing is required for graduation.

27 Monday. Academic year begins for Class of 1984.

JULY

1 Friday. Class of 1984 reports to hospital rotations.

4 **Monday. Independence Day observed for third- and fourth-year students.**

5 Tuesday. Class of 1985 reports to hospital rotations.

AUGUST

1 Monday.† Last day to apply or reapply for all degrees to be conferred in October (see September 7).

22–26 Monday–Friday. Optional early registration for second-year students.

26–31 Friday–Wednesday. Orientation for first-year students.

29 Monday.* Registration for first-year students.

30 Tuesday.* Registration for second-year students.

**Students allowed to register after the period specified must pay a late fee.*
†Students who apply after this date must pay a late fee.

SEPTEMBER

1 Thursday. Academic year begins for first- and second-year students; late registration begins.

5 **Monday. Labor Day holiday for first-, second-, third-, and fourth-year students.**

6-7 Tuesday-Wednesday. National Board Part I Examination for students failing June 14-15 examination.

7 Wednesday. Last day to file *late* applications for October degrees.

27-28 Tuesday-Wednesday. National Board Part II Examination for fourth-year students. Passing is required for graduation.

OCTOBER

26 **Wednesday. Award of October degrees.**

NOVEMBER

4 Friday.* Last day to apply or reapply for all degrees to be conferred in January (see December 9).

8 **Tuesday. Election Day. Half-day holiday for first- and second-year students.**

24-25 **Thursday-Friday. Thanksgiving holidays for first-, second-, third-, and fourth-year students.**

DECEMBER

9 Friday. Last day to file *late* applications for January degrees.

17 **Saturday, through January 2, Monday. Vacation for second- and third-year students.**

20 **Tuesday, through January 2, Monday. Vacation for first-year students.**

JANUARY

3 Tuesday. Resumption of classes for first-, second-, and third-year students.

11 Wednesday. First semester ends for first-year students.

16 Monday. Second semester begins for first-year students.

25 **Wednesday. Award of January degrees.**

FEBRUARY

20 **Monday. Spring vacation for first- and second-year students.**

21 Tuesday.* Last day to apply or reapply for all degrees to be conferred in May (see April 2).

MARCH

24 **Saturday, through April 1, Sunday. Spring vacation for first- and second-year students.**

**Students who apply after this date must pay a late fee.*

APRIL

2 Monday. Last day to file *late* applications for May degrees.

3-4 Tuesday-Wednesday. National Board Part II Examination for students failing September 27-28 examination.

MAY

2 Wednesday. Dean's Day for Medical Student Research.

16 **Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.**

28 **Monday. Memorial Day holiday for first-, second-, and third-year students.**

JUNE

2 Saturday through June 11, Monday. Study period for second-year students, NBME I.

8 Friday. Second semester ends for first-year students.

12-13 **Tuesday-Wednesday. National Board Part I Examination. Passing is required for graduation.**

11-15 Monday-Friday.* Registration for Class of 1986.

13 Wednesday. Academic year begins for Class of 1986.

15 Friday. Major Clinical Year concludes for third-year students.

26-28 Tuesday-Thursday.* Registration for Class of 1985.

29 Friday. Academic year begins for Class of 1985.

JULY

2 Monday. Class of 1985 reports to hospital rotations.

4 **Wednesday. Independence Day Holiday for third- and fourth-year students.**

5 Thursday. Hospital rotations begin for Class of 1986.

Dates of National Board Examinations

Part I	September 6-7, 1983. Not given at P&S. June 12-13, 1984. Required by P&S.
Part II	September 27-28, 1983. Required at P&S. April 3-4, 1984. Not given at P&S.

**Students allowed to register after the period specified must pay a late fee.*

Health Sciences Administration

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The College of Physicians and Surgeons and Affiliated Hospitals

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of new knowledge, and support the research from which the physician's knowledge develops.

Statement of Nondiscriminatory Policies

The University is required by certain Federal statutes and administrative regulations to publish the following statements:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and Part 86 of 45 C.F.R., the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX and Part 86 of 45 C.F.R. may be referred to Ms. Rosalind S. Fink, the Director of the University's Office of Equal Opportunity and Affirmative Action (305 Low Memorial Library, New York, N.Y. 10027, telephone 212-280-5511), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, N.Y. 10007.

Columbia University admits students of any race, color, national and ethnic origin to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate on the basis of race, color, national and ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and Part 84 of 45 C.F.R., the University does not discriminate on the basis of handicap in admission or access to, or employment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973 requires affirmative action to employ and advance in employment qualified handicapped workers.

The University in addition desires to call attention to other laws and regulations that protect employees, students, and applicants.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color, or national origin in programs or activities receiving Federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination because of race, color, religion, sex or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age.

The Columbia University Senate on December 1, 1978, passed a resolution announcing its general educational policy on discrimination which reaffirms the University's commitment to nondiscriminatory policies in the above-mentioned categories, as well as its policy not to discriminate on the basis of sexual orientation.

Section 402 of the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, prohibits job discrimination and requires affirmative action to employ and advance in employment qualified special disabled veterans and veterans of the Vietnam era.

All employees, students, and applicants are protected from coercion, intimidation, interference or discrimination for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has also been designated to coordinate the University's compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied equal opportunity should contact this Office, which will investigate complaints and counsel employees on questions relating to equal opportunity and affirmative action.

Reservation of University Rights

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. This bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

History of the College and University

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction was resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; from that time on the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the college was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises

about twenty acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is given on the inside back cover.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a seventeen-story building, each floor of which connects with the wards and services of the Presbyterian Hospital. The William Black Medical Research Building is a twenty-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a twenty-story structure diagonally opposite the William Black Medical Research Building, opened its teaching, research, and library facilities in 1976.

Augustus C. Long Health Sciences Library

The Columbia University Health Sciences Library is housed in the Julius and Armand Hammer Health Sciences Center, 701 West 168th Street. The four floors occupied by the library offer a comfortable atmosphere conducive to study, including such amenities as individual study carrels, group study and conference rooms, typing rooms, and a leisure reading lounge.

With more than 380,000 volumes and a staff of 44, the Health Sciences Library is one of the largest medical center libraries in the United States. It is well able to serve the needs of faculty, students, and researchers in the health sciences disciplines. More than 3,200 periodicals are received regularly. The library includes a comprehensive media center equipped with audiovisual materials and equipment, as well as a significant rare book and special collections section. In addition to traditional reference services, the library offers computerized literature searching on several data bases, including MEDLARS. Materials describing library services are available on request.

Other Columbia libraries, located on the Morningside campus, are open to all students and faculty who carry Columbia identification cards. The main collection is housed in Butler Library; special and departmental collections are housed in other buildings on the campus. Columbia students and faculty are also permitted access to the collections of approximately twenty-five other research institutions including Stanford and Yale Universities, under the auspices of the Research Libraries Group. Information about the Research Libraries Group can be obtained from the Health Sciences Library.

Comprehensive Cancer Center/Institute of Cancer Research

The Cancer Research Center was established in 1973. In 1977 it was designated the Cancer Center/Institute of Cancer Research. In 1979 the Center was awarded Comprehensive status by the National Cancer Institute in recognition of its broad responsibility for research, patient care, and cancer control activities. The Center coordinates, integrates, and facilitates cancer research, education, and patient care in the Health Sciences Faculties of Columbia University and its affiliated hospitals in New York City—Presbyterian, St. Luke's, Roosevelt, Harlem—as well as Overlook in Summit, New Jersey, and Morristown Memorial Hospital in New Jersey. The Cancer Center was organized to effect the efficient and cooperative use of all Center resources, maximize the dissemination of information among Center personnel, and facilitate the rapid translation of cancer research findings into programs for improving capabilities for the prevention of cancer and the care of patients with cancer.

The Institute of Cancer Research of Columbia University, College of Physicians and Surgeons, was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938.

The Comprehensive Cancer Center and the Institute of Cancer Research were separated in 1980 to function as two separate entities. While both are mutually involved in a clinical and basic research cancer effort, their administrations function autonomously.

The Centers for Community Health

The Centers for Community Health are composed of a Center for Health Services Research and a Collaborative Program in Oral Health with the School of Dental and Oral Surgery whose research program is one of the few in the country directed toward an area of health services which has long been neglected. The Centers provide a locus for student teaching and research by the Faculty of Medicine and the School of Public Health, especially health administration, on problems of the delivery, financing, and distribution of health care in a diverse group of institutions in the inner city and the suburbs.

Center for Geriatrics and Gerontology

The Center was established and funded by the Faculty of Medicine and the New York State Office of Mental Health and is a rich resource for teaching and research in geriatrics and gerontology in a group of medical as well as long-term care facilities and in community settings. The Center designated by the Administration on Aging as a long-term care gerontology center is for HHS region II. With major funding from the Administration, it is one of the nine regional programs on long-term care. The Center has forged development of models for an alliance between the University and the community providers of care for the development of services to the elderly. Its major focus is research and the care of the elderly.

Gertrude H. Sergievsky Center

The Sergievsky Center is a center for research in the epidemiology of epilepsy, cerebral palsy, and developmental brain disorders. The center has a core scientific faculty concerned with the development of research in the epidemiology of those diseases. Funded with an endowment, it participates in the teaching programs of the Epidemiology Division of the School of Public Health and the Departments of Neurology and Pediatrics and provides a major resource in epidemiology research and training in neuroepidemiology.

Institute of Human Nutrition

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute is organized into three primary divisions: Growth and Development, Nutrition and Metabolism, and Community Nutrition. Although each division conducts its own research program and offers its own program of instruction, these are highly integrated in order to achieve two basic goals: research in all areas of human nutrition and an integrated teaching program in areas of nutrition relevant to the physician and medical scientist.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, combined research projects between the divisions are under way, and joint seminars and courses involving faculty and students in all three divisions are conducted. Constant interchange of ideas is fostered through weekly combined staff conferences and special lectures which are open to the medical center community. Through its Master of Science, Doctor of Philosophy, and postdoctoral programs, the Institute aims to train individuals for scholarly activities in university and research centers that are in the forefront of the movement to advance nutrition as a health science.

The facilities of the Institute include laboratories in the William Black Medical Research Center, and the Obesity Center and Nutrition and Metabolic Research Center at St. Luke's Hospital Center. The office of the Director and other administrative offices are located on the seventh floor of the Health Sciences Center.

International Institute for the Study of Human Reproduction

The International Institute for the Study of Human Reproduction was founded in 1965 by Dr. Howard C. Taylor and was made possible by a substantial grant from the Ford Foundation. The primary purpose of the founders was to foster research in the sciences relevant to the solution of the world population problem. In more recent years, the aims of the Institute have been interpreted more broadly to include teaching, research, and the provision of clinical and social services related to the reproductive health of men and women. The Institute now consists of three centers.

The Center for Reproductive Sciences is composed of an interdisciplinary group of investigators devoting themselves to the study of the biochemical and physiological aspects of reproduction in men and women. It also comprises a clinical division involved in the diagnosis and treatment of the diseases of female reproduction.

The aims of the Center for Population and Family Health are more specifically relevant to the social consequences of human reproduction. The Center's community-oriented Reproductive Health Services for Women Unit, in cooperation with the division of ambulatory care of the Department of Obstetrics and Gynecology, provides care, with emphasis on services for adolescents, to the community surrounding the Columbia-Presbyterian Medical Center. The Center's International Research and Technical Assistance Unit works with a number of foreign governments and with private organizations toward improved basic health and family planning services for poor people in developing countries. The Social Sciences Research Unit conducts ongoing evaluations of the Center's domestic reproductive service programs and carries out a basic research program on the causes and consequences of adolescent fertility. Finally, as a division of the School of Public Health, the Center provides academic programs leading to the M.P.H. and Dr.P.H. degrees in the fields of population/family planning, maternal and child health, and public health nutrition.

A third unit has recently been added to the Institute: the Center for Male Reproduction. The Center consists of an interdisciplinary group of basic scientists and clinicians engaged in the study and treatment of the diseases of the male reproductive system.

The offices of the Centers for Reproductive Sciences and for Male Reproduction are at 630 West 168th Street and the office for the Center for Population and Family Health is at 60 Haven Avenue, Floor B-3, New York, N.Y. 10032.

Affiliated Hospitals

The Presbyterian Hospital in the City of New York

Founded in 1868, the Hospital joined with the Columbia College of Physicians and Surgeons to form the Columbia-Presbyterian Medical Center, which opened in 1928. Under the terms of the permanent alliance agreement with Columbia University, members of the hospital staff are appointed by the Board of Trustees of the hospital on nomination by the Trustees of the University. The Presbyterian Hospital has an overall capacity of 1,291 beds and 48 bassinets. Plans call for a major modernization effort to begin in 1984.

The Hospital includes all of the individual units described below:

Presbyterian Hospital is the single largest hospital pavilion.

The New York Orthopaedic Hospital opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The hospital was located in its own buildings at 420 East 59th Street until December 1950, when it was merged with the Presbyterian Hospital as its orthopedic service.

Squier Urological Clinic is the Urology Service of the Presbyterian Hospital.

Sloane Hospital for Women, currently the Hospital's obstetrics and gynecology unit, was built at West 59th Street and Amsterdam Avenue and presented to Columbia University by Mr. and Mrs. William D. Sloane in 1886. It now is part of the Presbyterian Hospital's new Center for Women and Children.

Harkness Pavilion, erected when the Medical Center was established in 1928, is available for the accommodation of private and semiprivate patients from various services.

Babies Hospital, founded in 1887, provides for general medical and surgical care of infants and children up to their late teens, and care for premature babies. It is now part of the Center for Women and Children.

Neurological Institute, one of the first nongovernmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It moved from East 67th Street to the Medical Center in 1929. The Institute includes facilities added in 1960 for psychiatric patients. It comprises the Hospital's Neurology and Neurological Surgery Services.

The Edward S. Harkness Eye Institute, site of the Hospital's Ophthalmology Service, opened in 1933. It has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. On January 1, 1940, the work of the Herman Knapp Memorial Eye Hospital was taken over by the Institute.

Vanderbilt Clinic was presented to Columbia University by the Vanderbilt family in 1888 and is the outpatient department for the Presbyterian Hospital.

The Mary Imogene Bassett Hospital

The Mary Imogene Bassett Hospital in Cooperstown, New York, is a rural hospital combining the characteristics of a university medical center with a dedication to the delivery of both primary health services to the local community and highly specialized services to a large referral area. The hospital has 180 beds and a staff of specialists who are all salaried and full time. In 1982 there were 139,000 visits to the Outpatient Department and 6,250 admissions. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. Members of the staff conduct biomedical research and are interested in models for the delivery of health care to the community. The library is unusually extensive for a hospital of this size, with over 22,000 volumes and about 600 subscribed journals. Since 1947 the hospital has had a formal affiliation with Columbia, and currently about 60 students from Columbia elect programs at the Mary Imogene Bassett Hospital.

Harlem Hospital Center

Harlem Hospital Center, founded in 1887, is a general hospital of nearly 1,000 beds serving Central Harlem and environs, responsible for the care of approximately 400,000 people. The College of Physicians and Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, is responsible for all professional services in this hospital and nominates its entire professional staff.

This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

The Helen Hayes Hospital

The Helen Hayes Hospital at West Haverstraw, New York, founded in 1900, is an independent rehabilitation hospital with complete medical services, owned and operated by the

state through the New York State Health Department. Since 1966 the hospital has had a formal affiliation with Columbia University. The medical specialties and allied health professionals are organized into disability units that provide comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The hospital has over 800 admissions and 12,000 outpatient visits a year. In 1980 a new 206-bed hospital building was opened, work began on construction of new research quarters, and plans were completed for establishment of several major new research centers. The hospital's long-standing program of bioengineering research now becomes the Orthopedic Engineering and Research Center; to this will be added the Regional Bone Center, Regional Arthritis Center, and Neurology Center.

Morristown Memorial Hospital

Morristown Memorial Hospital is a regional hospital center offering comprehensive health services for the entire family. It is a voluntary, nonprofit institution with a history of community service dating back to 1892. The hospital has become a central health care facility serving Morris, Warren, Sussex, and Somerset counties, and a medical referral center for all of northwest New Jersey. Morristown Memorial is also a teaching hospital, with programs for medical, nursing, and technical staff. It became affiliated with the College of Physicians and Surgeons in 1979. Morristown Memorial, Overlook Hospital in Summit, and St. Barnabas Hospital in Livingston are members of the Shared Services Consortium pioneering regionalized health care services in northern New Jersey. With 669 beds, 1,800 employees, 550 nurses, a medical and dental staff of more than 450, and a full spectrum of basic and highly specialized services, Morristown Memorial combines the traditional advantages of a community hospital with the advanced capabilities of a progressive medical center. The hospital has two divisions: one where the emphasis is on acute care; the other, a center for preadmission testing, geriatric extended care, outpatient and alcoholic services, and planned facilities for subacute and rehabilitative care.

Overlook Hospital

Overlook Hospital in Summit, New Jersey, is a 551-bed suburban community hospital, founded in 1906, which became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. It is a general, voluntary, nonprofit institution accommodating 20,000 inpatients and 100,000 outpatients each year. Overlook offers particularly strong training in family practice and primary care internal medicine and pediatrics through a program of broad-based clinical experience for graduate physicians. Outreach programs have been pioneered in alcoholism and other addictive illness, home-care and home-based hospice, and mobile intensive care utilizing paramedics. The hospital's Center for Community Health provides outpatient services including preadmission testing, ambulatory surgery and radiology, and a consumer health library. A construction/renovation project, which will increase the bed complement by 84, was initiated in 1983.

St. Luke's–Roosevelt Hospital Center

St. Luke's Hospital Center, which has included Woman's Hospital since 1953, merged with The Roosevelt Hospital in 1979, forming a Hospital Center containing 1,315 beds and serving a catchment area spanning Manhattan's west side from 34th to 134th Streets. Both hospitals had maintained teaching affiliations with the College of Physicians and Surgeons of Columbia University for many years before 1971, when they each became full University hospitals. Under the terms of the affiliation with Columbia University, new members of the medical staff are appointed by the Hospital Center's Board of Trustees after they have received appointments as officers of instruction at the College of Physicians and Surgeons. The medical

staff of the Hospital Center numbers over 1,200; the house staff consists of approximately 400 fellows and residents.

St. Luke's Hospital Center Division

St. Luke's was established in 1850 and has been on Morningside Heights next to the main Columbia campus since 1896. It merged with Woman's Hospital in 1953, and today the hospital complex contains 780 beds, including 63 pediatric beds, 58 obstetric beds, and 58 bassinets. Approximately 26,500 patients are admitted yearly to the four major and eleven specialty services.

St. Luke's is recognized as a leader in such fields as heart surgery, kidney transplantation, artificial kidney treatments, and noninvasive diagnosis (ultrasound). The Hospital Center's clinically oriented research projects are involved in such areas as blood diseases, coronary artery disease, gastroenterology, obesity and nutrition (it is the site of the only federally funded obesity research center), pulmonary disease, renal transplant-immunology, and bioengineering. A medical library of 32,000 volumes is an integral part of the Hospital Center. St. Luke's is both a major referral institution and a community hospital. The more than fifty specialty and subspecialty clinics see 50,000 patients yearly (totaling approximately 180,000 visits); the Emergency Room is one of the busiest in Manhattan, with 77,000 visits annually. The Hospital Center also operates extensive community programs in alcoholism treatment, drug detoxification, and mental health.

Roosevelt Hospital Division

The Roosevelt Hospital treated its first patient in 1871. It contains 535 beds and bassinets. There are about 180,000 outpatient and emergency-room visits annually. Approximately 19,000 patients are admitted to this hospital yearly. The hospital is engaged in many research and teaching activities. A new research building containing 52,000 square feet of laboratory space for all departments was opened in 1973. The medical library contains 26,000 volumes and subscribes to 540 medical and technical journals. The hospital is actively engaged in community programs, as represented by its Children and Youth Program and by its Drug Addiction and Alcoholism Programs and many other outreach and community services sponsored by the Departments of Pediatrics, Psychiatry, and Medicine, and the ambulatory care division. The hospital's new emergency room treats over 51,000 people yearly.

New York State Psychiatric Institute

The Institute was built and is maintained by the New York State Office of Mental Health. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to provide the highest quality of clinical care for patients with psychiatric disorders, to provide education for mental health professionals, and to do research into the causes and treatment of psychiatric illness. The Institute currently maintains sixteen major research laboratories, a hospital, and a wide variety of specialized outpatient departments which provide diagnostic and treatment programs. The Lawrence C. Kolb Research Annex, a thirteen-story facility dedicated to psychiatric research, was opened in the spring of 1982.

Admission, Registration, Expenses, and Financial Aid

Entering classes are enrolled in the College in September of each year. The minimum requirement for admission is attendance for three full academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other course in chemistry covering at least one academic year. These requirements have been designated as mandatory not only by our faculty but by various state medical licensure boards as well; accordingly, applicants cannot be excused from them. Courses in genetics and embryology will be useful but are not required. Students applying for admission must also have taken the Medical College Admission Test in the spring or autumn of the year of application, but only if the test scores will be sent to medical schools in the State of New York; if the scores will not be sent to this school, the requirement will be waived for all applicants. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

Application Procedure

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class; requests for application forms may be submitted one year in advance of registration. The completed form must be accompanied by the application fee of $40. The fee helps to cover the cost of processing the application; it is therefore not returnable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested only by the Admissions Office.

Selection of Students

The Committee on Admissions devotes months to the task of selecting a class of 148 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and to develop a desire for a continuous program of self-education. In the

selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art and, to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

Admission to Advanced Standing

Only a very small number of vacancies occur during the medical course, and students can be accepted on transfer from other schools only when such vacancies do arise. Any student desiring to transfer from an accredited school of medicine to the upper classes of the College should communicate with the Admissions Office to learn if a vacancy exists.

Admission of Foreign Students

Applicants need not be citizens of this country but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but in the past the Committee on Admissions has had great difficulty in finding a satisfactory means of evaluating the caliber of education available in the many colleges and universities throughout the world. Likewise, the Committee will accept applications for admission with advanced standing to this school from individuals who have begun their medical education in schools outside the United States and Canada, but again it has usually been able to admit relatively few individuals, either to an entering class or with advanced standing, whose previous education has not been obtained in this country or Canada.

Registration

Before attending classes, each student must register in person at the Office of Student Information Services during the registration period listed in the Academic Calendar. The Office of Student Information Services, on the first floor of the Black Building, is open from 9 a.m. to 5 p.m. daily except Saturdays, Sundays, and holidays.

All students are asked to give Social Security numbers when registering in the University. However, Social Security numbers are required of foreign students *only* when those students will be receiving payment from the University. Foreign students should consult the Office of Foreign Student Services, 208 Lewisohn Hall, for further information. Other students who do not have Social Security numbers should obtain them from their local Social Security offices *well in advance of registration.*

Students who are not citizens of the United States and who need authorization for special billing of tuition and/or fees to foreign institutions, agencies, or sponsors should go to the Foreign Student Adviser with two copies of the sponsorship letter. Special billing authorization is required of students whose bills are to be sent to a third party for payment.

Regulations

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No

student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges (see below). No student may register after the stated period without the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with unpaid indebtedness to the University.

Conduct

All members of the University community, its visitors and guests, are governed by the Rules of University Conduct, which apply to all demonstrations, including rallies and picketing, that take place on or at a University facility. It is the student's responsibility to be aware of all provisions, regulations, and procedures contained in the Rules. Copies are available in the Office of the University Senate, 406 Low Memorial Library.

Attendance

Students are held accountable for absences incurred owing to late enrollment.

Religious Holidays

It is the policy of the University to respect its members' observance of their major religious holidays. Officers of administration and of instruction responsible for the scheduling of required academic activities or essential services are expected to avoid conflict with such holidays as much as possible. Such activities include examinations, registration, and various deadlines that are a part of the academic calendar. (See the *Academic Calendar* for dates of religious holidays.)

Where scheduling conflicts prove unavoidable, no student will be penalized for absence for religious reasons, and alternative means will be sought for satisfying the academic requirements involved. If a suitable arrangement cannot be worked out between the student and the instructor involved, students and instructors should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

Auditing Courses

Degree candidates in good standing who are enrolled for a full-time program in the current term may audit one or two courses (except during the summer term) in any division of the University without charge by filing a formal application in the Registrar's Office (Black Building, Room 138) no later than September 9 in the autumn term and January 26 in the spring term. Applications require (*a*) the certification of the Registrar that the student is eligible to audit and (*b*) the approval of the dean of the school in which the courses are offered.

For obvious reasons, elementary language courses, studio courses, applied music courses, laboratory courses, and seminars are not open to auditors; other courses may be closed because of space limitations. In no case will an audited course appear on a student's record, nor is it possible to turn an audited course into a credit course by paying the fee after the fact. Courses previously taken for credit may not be audited.

Fees

The following fees, prescribed by statute, are in effect for 1983-1984 and are subject to change at the discretion of the Trustees.

University charges such as tuition and fees, residence halls, and board plans may be paid at

the student's convenience during the term. The full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a finance charge is assessed on amounts not paid by the due date shown on the monthly bill. Effective in the autumn term of 1981, the finance charge was increased to 1.5 percent a month. In either event, however, the student is required to sign a Retail Installment Credit Agreement at the time of registration that sets forth the full terms and conditions of payment. All charges must be paid by the end of the term.

Tuition, the health service fee, the health insurance premium, and special fees are payable each term as part of registration. If these fees are paid after the last day of registration (*see Academic Calendar*), they will not be reduced, and a minimum late fee of $50 will be imposed. Checks for tuition and fees should be made payable to Columbia University.

It is the policy of the University to withhold diplomas, certificates, and transcripts until all financial obligations have been met. Candidates for graduation are urged to pay their bills in full at least one month prior to graduation.

In the event a diploma, certificate, or transcript is withheld because of an unpaid bill, a student will be *required* to use a certified check, money order, or cash to release any of the aforementioned documents.

Tuition

For the full course in medicine for one academic year (or the equivalent), payable in two installments	$11,346.00

Health Service and Hospital Insurance Fees

The following fees, prescribed by statute, are subject to change at the discretion of the Trustees. For all full-time students, per year (September 1–August 31)

Health service fee	$285.00
Hospital insurance premium	222.00

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium to the Associated Hospital Service of New York. Participation in these programs is compulsory for all full-time students; students who already carry hospital insurance, however, will be charged the health service fee only. Proof of comparable coverage must be shown at the time of registration. Upon payment of additional fees, students can acquire hospital insurance coverage for their dependents and the latter are eligible to receive the benefits of the health service program. Students should consult the Office of the Registrar, Black Building, Room 138, for further information on dependent coverage.

The Student Health Service, which holds daily office hours, is on the street level of Bard Haven Tower 1 (60 Haven Avenue).

Application Fees

For admission	$40.00
For late application, or late renewal of application, for a degree	50.00

Late Registration Fees

	Full-Time	*Part-Time*
During late registration	$ 50.00	$ 50.00
After late registration	100.00	100.00

Withdrawal and Adjustment of Fees

A student in good academic standing who is not subject to discipline will always be given an honorable dismissal if he or she wishes to withdraw from the University. Withdrawal is defined as the dropping of one's *entire* program in a given semester as opposed to dropping a portion of one's program.

Any student withdrawing must notify the Office of Student Information Services in writing: failure to attend classes or notification of instructors does not constitute formal withdrawal and will result in failing grades in all courses. Any adjustment of the tuition that the student has paid is reckoned from the date on which the Office receives the student's written notification. Application fees, late fees, and special fees are not refundable.

Up to and including the second Saturday after the first day of classes, tuition will be retained in the following amount:

Full-time study	$75.00
Part-time study	40.00

After the second Saturday after the first day of classes in the term, the above amount is retained, plus an additional percentage of the remaining tuition (as indicated in the schedule below), for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Office of Student Information Services.

Adjustment Schedule

	Minimum Fees Retained	*Percentage of Remaining Tuition Retained*
Second Saturday after first day of classes	$40 or $75	0
Week following second Saturday after first day of classes	40 or 75	10
Second following week	40 or 75	20
Third following week	40 or 75	30
Fourth following week	40 or 75	45
Fifth following week	40 or 75	60
Sixth following week	40 or 75	75
Seventh following week	40 or 75	90
Eighth following week	40 or 75	100 (no adjustment)

Application or Renewal of Application for a Degree

Degrees are awarded three times a year—in October, January, and May. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Registrar, 630 West 168th Street. In the 1983-1984 academic year, the last day to file for an October degree is August 1; for a January degree, November 4; and for a May degree, February 20. A late fee of $50 will be charged after these dates and until the expiration of the *late* filing period for each conferral date (September 7 for October degrees, December 9 for January degrees, April 2 for May degrees). Applications received *after* the late filing period will automatically be applied to the next conferral date.

If the student fails to earn the degree by the conferral date for which he or she has made application, the student may renew the application. A $50 late fee will be charged for late filing of renewals of application according to the same schedule as for original applications (see above.)

Requests for Transcripts

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of Student Information Services, Columbia University, 138 Black Building, 630 West 168th Street, New York, N.Y. 10032. *Official* copies will be sent directly by the University only to an official address such as another university, a business firm, or government agency. However, students or alumni may request that unofficial copies of their transcripts (stamped "Student Copy") be sent directly to them.

There is a charge of $5 for each transcript requested singly, or $5 for the first copy and $1 for each additional copy requested at the same time. There is no charge for intrauniversity copies sent between University offices. Transcript requests are processed in the order received and require five to seven working days for processing. Specific deadlines should be mentioned, and checks accompanying requests should be made payable to Columbia University.

Estimated Expenses

Current educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$11,340.00
Health and Hospitalization Insurance Fees	507.00
Books and supplies	730.00
Microscope rental cost and other equipment	570.00

In addition to the educational costs listed above, each first-year student should budget approximately $5,830 to cover housing ($2,670), food ($2,045), clothing, laundry and dry cleaning ($345), and miscellaneous expenses ($770).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

Microscope, Instruments, and Books

Students are required to have microscopes for courses in the first and second years of medical school. A microscope rental service is operated by the Medical Center Bookstore. For students who wish to purchase a new or used microscope, the faculty recommends a binocular instrument of standard make, complete with carrying case, built-in illuminator, and quadruple nosepiece (4X, 10X, 40X, and 100X oil-immersion objectives).

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

Housing

Bard Hall, at 50 Haven Avenue overlooking Riverside Park and the Hudson River, is the residence for students in the College. Its facilities include lounges, a cafeteria and several dining rooms, and a gymnasium with a swimming pool, basketball and squash courts, and facilities for other sports.

Room rates at Bard Hall depend on the length of the academic year and the room assignment. Information on the cafeteria service, room application forms, and other details are provided for entering students by the Admissions Office. Selected one-bedroom apartments in the Bard Haven Towers are reserved for married students. Other one-, two-, and three-bedroom apartments can be rented by groups of single students.

For further information concerning on- and off-campus housing on or near the Health Sciences Campus, write to the Assistant Director of Residence Halls, Bard Hall Office, 50 Haven Avenue, New York, N.Y. 10032.

Apartments are available for married students in Bard Haven Tower I on the Medical Center campus. Married or single students may rent apartments in Towers II and III; the rents are higher. Information may be obtained from the Manager, Bard Haven Towers, 100 Haven Avenue, New York, N.Y. 10032.

Financial Aid

All financial aid awards are based on demonstrated need. Each year applicants for financial aid are required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are intended to supplement, rather than substitute for, the student's resources and parental contributions.

The federal government makes available each year a limited number of one-year full scholarships for first-year students of Exceptional Financial Need (EFN). Funds are allocated to medical schools, who are responsible for selection of EFN recipients. Students need not request consideration for these funds directly. Awards are determined from the information provided on the financial aid application. Continuation of federal funding for this program is uncertain.

Upon acceptance by the College, students receive the financial aid policy statement, loan interest and repayment information, and an application form which must be completed promptly. Students enrolled in the College are informed annually about the policies for the coming academic year and the dates for submission of the financial aid application and loan applications. Further information may be obtained from the Financial Aid Office of the College of Physicians and Surgeons, telephone (212) 694-4100.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the Presbyterian Hospital for information regarding employment opportunities at the Medical Center.

Scholarships

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State offers the Regents Physician Shortage Scholarship, which is intended to ease the physician shortage in certain areas of the state. The Financial Aid Office provides interested students with the necessary information on applications for these programs. Applicants to medical school should also consult college premedical offices for information on the competitive New York State Regents Scholarships for Professional Study of Medicine. Applications are due between the October and February prior to matriculation. Students should be advised that these deadlines are strictly adhered to.

Among nongovernmental sources of funding there is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States or permanent residents (visa status). Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 250 West 57th Street, New York, N.Y. 10019 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

The R.G. Haddad Foundation Scholarship is available for enrolled medical students who are United States citizens of Syrian or Lebanese descent. Applicants must have verified financial need. A grant for one year may be renewed upon application. The Financial Aid Office of the College of Physicians and Surgeons advises students of the availability of this scholarship annually.

There are a number of scholarship funds administered by the Financial Aid Office of the College. With the exception of the Lawrence John Durante Scholarship (see below), students do not apply directly for these scholarships. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University and are awarded to qualified students by the Financial Aid Office. Students are assured consideration for these funds by applying regularly for financial aid.

Endowed Scholarship Funds

ALLEN Gift of Mrs. Vivian B. Allen.

ALUMNI A limited number of national scholarships. Provided by gifts from the P&S Alumni Association and other contributors.

ANONYMOUS Several; awarded annually.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA AND ABRAHAM PENNER BERNHEIM SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

GEORGE BLUMENTHAL, JR. From the George Blumenthal, Jr., Fund.

ELIZABETH ROCK BRACKETT SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

DR. HARRY BRITENSTOOL MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in memory of her brother.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

DR. MOSES R. BUCHMAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchman.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

ALONZO CLARK Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the thirty-fifth anniversary of its graduation.

CLASS OF 1912 Given by the class on the fifteenth anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1924 To commemorate the fiftieth anniversary of their graduation.

CLASS OF 1928 Given at their tenth reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the twenty-fifth anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1952 Given by members of the class on the tenth anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

HENRY D. CRUGER Bequest of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, Inc. Established by the Foundation.

ANTHONY M. DeANGELIS Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DAVID M. DEVENDORF Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

FRANCIS E. DOUGHTY Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, long-time employees of the Medical Center.

JACOB HARSEN Given by Dr. Jacob Harsen.

FRANK HARTLEY Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

WILLIAM H. HEMINGWAY

AARON HIMMELSTEIN MEMORIAL Open to undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, the easing of pain and protection of life.

CHARLES EUGENE HUBER, SR. Bequest of Francis D. Huber, in memory of his father.

FRANCIS HUBER Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

EDWARD R. JEAL Awarded to deserving students studying under the Faculty of Medicine.

CHARLES CHRISTIAN LIEB Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

MARJORIE McANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber.

ELIZABETH HALL McCULLOGH Given by Mrs. William G. Heaphy, in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons.

HERBERT D. MANLEY Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE Given by Madeline Shelton Markoe, in memory of her husband.

M. MONTGOMERY MAZE From the estate of M. Montgomery Maze, Pearl River, N.Y. Part of this fund may be used for scholarships and/or fellowships, preferably for graduates of the Pearl River High School.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif and Duane Todd.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER Bequest of the donor to be awarded with preference to a gifted woman student.

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, and friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons or daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

DAVID H. ROUS From family, friends, and business associates of David H. Rous, the income to be divided equally among the Graduate School of Business, Columbia College, and the College of Physicians and Surgeons.

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

SAGAMORE Awarded to needy students.

JOSEPH F. SAPHIR MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph F. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus's services to the College.

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband.

THE JAMES A. STEVENSON MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, Jr., MEMORIAL Given by Dr. E. E. Stewart, in memory of his son.

ARTHUR PURDY STOUT MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF Awarded to one or more students in their third or fourth year of medical school. Bequest of Miriam Sturmdorf.

HAROLD S. VAUGHAN Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER Established in his memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

ROBERT M. WECHSLER Given by Dr. I. S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

WHITING—Dr. FORDYCE B. St. JOHN SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B. St. John.

Dr. JAMES LANCELOT WILSON Awarded to a student selected by the College of Physicians and Surgeons.

JOHN C. WOOD MEMORIAL Established by family and friends in memory of Dr. Wood, Class of 1976.

Gift Funds

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

CHARLES F. IKLE SCHOLARSHIP AND RESEARCH FUND Grant by the New York Community Trust.

JAMES T. LEE FOUNDATION, Inc. Annual grant to medical students.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in nonurban areas.

Loans

Loans are available to all full-time medical students. These funds are provided by various sources, including the federal and state governments, the University, and also private agencies, as outlined below.

Foreign students who hold an F-1 student visa are eligible to borrow only from University funds and must have comakers who are citizens or permanent residents of the United States. Comakers should not be University employees. Foreign students may borrow from federal or state loan funds upon being granted permanent resident visa status in the United States.

Health Professions Student Loans. These are allocated by the Bureau of Health Manpower of the National Institutes of Health to individual medical schools, which are responsible for determining both the recipients of such funds and the amounts to be loaned. Assuming the availability of adequate funding, the maximum loan to a student in an academic year is the cost of tuition plus $2,500. Loans are repayable to the school over a ten-year period beginning one year after completing or interrupting the prescribed full-time course of study. Interest at the annual rate of 9 percent begins to accrue when the loan becomes repayable.

Repayment of Health Professions Loans may be *deferred* up to three years for those who become members of a uniformed federal service on sustained full-time duty (i.e., the Army, Navy, Air Force, Marine Corps, Coast Guard, Coast and Geodetic Survey), the Public Health Service, or the Peace Corps. For those pursuing advanced professional training, repayment may be deferred to completion of the training program. Interest does not accrue during period of deferment.

Health Professions Loans are *forgiven* or *cancelled* under certain conditions: (1) In the instance of students who agree to practice medicine for at least two years in a region of a state that has been determined to need additional personnel, the federal government will repay 60 percent of the outstanding principal and interest on any educational loan(s) for the cost of professional education. For a third year of practice in such an area, an additional 25 percent of the loan(s) will be repaid. (2) The outstanding loans of students who fail to complete their health professions studies will be repaid if they are in exceptionally needy circumstances, from a low-income or disadvantaged family, and cannot be expected to resume studies within two years. (3) Loans of students who die or suffer permanent and total disability will be cancelled.

Repayment of loans for service in shortage areas is subject to annual allocation of funds from the federal government.

National Direct Student Loans. Funds are allocated by the Office of Education to schools which are responsible for determining both the recipients of such funds and the amounts to be awarded. The total (undergraduate and graduate school loans) available to a student from the NDSL program is $12,000. The current interest rate, payable during the repayment period, is 5 percent on the unpaid principal. Repayment begins six months after graduation or after leaving school. The repayment period may extend up to ten years. Repayment may be deferred for up to three years during active U.S. military service, during service in the Peace Corps or Volunteers in Service to America (VISTA), during service in the National Health Service Corps, or for up to two years during service in an internship required to begin professional practice.

Federal and State Guaranteed Loans. Under the auspices of the Bureau of Student Financial Assistance of the Department of Education, federally insured loans are available to students with demonstrated financial need. The loans are made by authorized banks, savings-and-loan associations, credit unions, pension funds, and insurance companies. The maximum loan each academic year under this program is $5,000, and the total outstanding loan balance at any one time may not exceed $25,000. Lending institutions participating in this program can provide information regarding interest rates, repayment, and deferment of repayment.

Auxiliary Loan to Assist Students. ALAS is a new federally insured loan program available to graduate students, who may borrow up to $3,000 a year at 12 or 14 percent interest. Repayment of the principal is deferred while students are in school full time, but interest payments must be made while enrolled. Since authorized deferments are the same as those for the guaranteed student loan program, a student may continue to pay interest only during the first two years of residency, beginning repayment of both principal and interest following that period. The aggregate indebtedness for graduate students is $15,000 under this program. This loan must be taken at the same bank as the GSL if a student borrows a GSL in New York State. This rule may also apply in other states. Students who are not New York State residents should be able to make an ALAS loan at a bank in New York if they are unable to borrow from their local lender.

Health Education Assistance Loans. HEAL is a federally insured loan program available to students in the health professions. Currently, all HEAL lenders use a promissory note with a variable interest rate. The rate is reassessed quarterly and is calculated by taking the interest rate on the ninety-one day Treasury Bill plus an additional 3½ percent. Interest on this loan begins to accrue immediately. There is a nine-month grace period after graduation. However, if the borrower becomes an intern or resident in an accredited program before that date, repayment will begin from nine to twelve months after the borrower ceases to be an intern or resident.

P&S Dean's Loan. The Dean's loan fund is a program established by the College to offset the burden of high interest loans to students with a high degree of demonstrated financial need. The interest rate is 9 percent and does not accrue while the student is in school or postgraduate training.

University loan funds are also intended to supplement students' resources when monies are available. Included among these are the following funds:

PETER AMAZON Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduate students at P&S.

GEORGE BLUMENTHAL, JR. Used for the assistance of needy students in the medical school.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, Jr. Gift of George L. Hawkins, Jr., Class of 1941.

B. H. HOMAN, JR., REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

ROBERT ABBE MACKENZIE Established by friends, colleagues, and patients of Dr. MacKenzie, an alumnus of the Class of 1921.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S, wherever they are in training, or to graduates of other medical schools in training at hospitals affiliated with the College of Physicians and Surgeons.

JESSIE SMITH NOYES

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily for the support of students and student activities. Priority given to fourth-year students who are subjected to increased living and transportation costs because of electing clerkships at the Mary Imogene Bassett Hospital, Cooperstown, N.Y.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City University of New York who have attended public schools exclusively (except for religious instruction). To be repaid in fifteen years; without interest for the first ten years; with 5 percent annual interest thereafter on the unpaid balance.

In addition to the foregoing, periodically there are funds for short-term emergency loans, which are administered through the Financial Aid Office of the medical school.

Prizes

Dr. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

ALUMNI ASSOCIATION AWARD Given for outstanding achievement.

VIRGINIA P. APGAR AWARD Awarded to an outstanding graduate student for excellence in completing an advanced course in anesthesiology and intensive care. Established by the Department of Anesthesiology in honor of Virginia P. Apgar.

MICHAEL H. ARANOW AWARD Awarded to the student who exemplifies the caring and humane qualities of the practicing physician.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in

pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the importance of rigorous preparation in basic medical science in the education of the physician.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D., PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

JANEWAY PRIZE Awarded to the student graduating from the College with the highest marks for efficiency and ability. Given by the bequest of Matilda S. J. Wisner.

Dr. HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

JOHN K. LATTIMER PRIZE IN UROLOGY Awarded to senior students for the best essays on urological subjects.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

ADMIRAL DAVID WILLARD LYON AWARD Awarded to a senior student on a military scholarship for outstanding academic achievement. Established by Dr. Edgar Housepian and Mrs. David Willard Lyon in memory of Admiral Lyon.

DOCTOR CECIL G. MARQUEZ BALSO STUDENT AWARD FOR EXCELLENCE Awarded to a graduating minority medical student for his/her outstanding contribution to the Black and Latin Student Organization and the minority communities.

EDITH AND DENTON McKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

Dr. HAROLD LEE MEIERHOF MEMORIAL PRIZE Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

NEW YORK ORTHOPEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, Dr. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

PUBLIC HEALTH AMBULATORY CARE AWARD Awarded by the School of Public Health to a senior student for an excellent public health project.

SAMUEL W. ROVER AND LEWIS ROVER AWARD An annual prize to be awarded to a graduating medical student or a male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

ANN RYAN PRIZE IN BIOCHEMISTRY To be awarded to deserving women graduate students.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

Dr. ALFRED STEINER AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research. Funded by Harcourt Brace Jovanovich in honor of Dr. Steiner.

Dr. HAROLD B. STEVELMAN AWARD Awarded to a senior student for excellence in adult cardiology. In honor of Dr. Harold Stevelman, Class of 1958, in appreciation of his service to the family of Mr. and Mrs. Leo Gilbert. Gift of Mr. and Mrs. Leo Gilbert.

Dr. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of the diseases of infants and children.

Dr. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, in memory of her husband, Dr. Sigmund L. Wilens.

Student and Alumni Activities

All students enrolled in the College enjoy the privileges and facilities of the University campus, including the University libraries.

P&S Club

The P&S Club was founded over eighty years ago by John R. Mott, who later won the Nobel Peace Prize. The Club is the most active and comprehensive student organization in American medical education today. All matriculated students in the College of Physicians and Surgeons are members, eligible to participate in extracurricular activities of their choice. Under the guidance of the Faculty Advisory Board, the student cabinet, led by the president, assumes the entire responsibility for management of the Club. The cabinet consists of four elected members from each class and those who chair the following committees: Orientation, Handbook, Student-Faculty Home Visits, Films, Concerts, Choral Society, Bard Hall Players, Fine Arts, Athletics, Community Youth Work, Accessories, Social, and Columbia-Presbyterian Medical Society.

Alpha Omega Alpha Honor Medical Society

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S Alumni Association

The P&S Alumni Relations Office serves to foster and maintain cordial relationships between the College of Physicians and Surgeons and its alumni and is responsible for alumni relations programs and the Alumni Annual Fund. Liaison with the College is facilitated through the office of the Assistant Dean for Alumni Affairs.

Regular members of the Alumni Association include all those awarded the M.D. or Med.Sc.D. degrees from the College, as well as all Ph.D. graduates of the basic sciences curricula at P&S and those awarded the Certificate in Psychoanalytic Medicine. Associate members include faculty members of the College, all house staff members and visiting fellows at hospitals affiliated with P&S.

The work of the Alumni Association is accomplished through the efforts of its officers and members of the fifteen standing and *ad hoc* committees, all of whom form the constituency of the P&S Alumni Council. Among the important functions of the Association is participation in the publication of P&S, a magazine that is cosponsored by the alumni and the medical school and serves as a major form of communication between the school and its alumni, faculty, students and their parents, and other friends and associates of the College.

Restricted revenues raised by the Alumni Association provide funds for endowed scholarships at the College of Physicians and Surgeons and toward the endowment of a P&S Alumni Professorship. Unrestricted revenues allow the College flexibility in applying funds to areas of greatest need. Traditionally, a substantial stipend from unrestricted revenues goes to the P&S Club as well as to scholarship aid.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. Through their membership on the Student-Alumni Relations Committee, students and alumni work together in addressing students' needs and concerns.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 2005-C Black Building, 630 West 168th Street, New York, N.Y. 10032. Telephone (212) 694-3498.

The Program of Instruction

The first-year curriculum is largely devoted to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. The development of basic clinical skills begins in the second semester and culminates in a four-week clerkship. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisers, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. Each fourth-year student is required to take a one-month elective in ambulatory care which includes clerkship experience in Public Health/Community Medicine. The elective courses of all departments are described in a catalog which is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisers stress the acquisition of knowledge and skills in areas of medicine apart from the student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

Grades, Promotions, and Leaves of Absence

All courses are rated on an Honors-Pass-Fail system and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of student performances in preclinical courses (*Abnormal Human Biology, Introduction to the Patient,* and *Psychiatric Medicine I and II*), major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: the First Year Class Faculty, the Second Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the

curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaffirms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss, or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is determined to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass National Board Examinations Parts I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

Key to Course Numbers

Medical Center courses: The suffixes F and S refer to first- and second-year courses, respectively. Numbers without a suffix indicate major clinical year clerkships that are repeated throughout the year in instruction periods of twelve weeks or less.

Summary of Curriculum (for Students Entering in September 1983)

First Year

SEPTEMBER 1, 1983, to JANUARY 11, 1984. First semester.

JANUARY 16, 1984, to JUNE 8, 1984. Second semester.

Second Year

SEPTEMBER 1, 1984, through MAY 31, 1985.

Third and Fourth Years

JULY 1, 1985, through APRIL 30, 1987.

Basic Science and Introductory Clinical Courses of the First and Second Years

Abnormal Human Biology 101S.
Dr. Canfield and interdepartmental associates: Cardiology, Dr. Drusin; Pulmonary, Dr. Harvey; Endocrinology-Metabolism, Dr. Holub; Gastroenterology, Dr. Glickman; Hematology, Dr. Bank; Immunology, Dr. Butler; Infectious Diseases, Dr. Neu; Oncology, Dr. Ellison; Nephrology, Dr. Al-Awqati; Surgery, Dr. Lo Gerfo.
Exercises in the application and correlation of the basic sciences to a broad range of clinical problems. Teaching is by seminar/lecture and is closely integrated with courses in pathology, pharmacology, and introductory medicine.

Anatomy 101F. Microscopic anatomy
Dr. Nunez and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies of structure in relation to function.

Anatomy 102F. Human anatomy
Drs. April, Moss, and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy 103F. Developmental anatomy
Dr. Pfenninger and departmental staff.
Lectures, demonstrations, and laboratory emphasizing the fundamental processes of embryogenesis; closely integrated with *Anatomy 101F—Microscopic anatomy.*

Biochemistry 101F. Introductory biochemistry
Dr. P. R. Srinivasan and departmental staff.
Lectures and conferences stressing principles of biochemistry and their relationship to disease processes.

Genetics 101S. Medical genetics
Dr. William Johnson and associates.
Lectures and clinical presentations emphasizing the practice of clinical genetics and the application of principles of genetics to the medical specialties.

Medicine 101S. Introduction to the practice of medicine
Drs. Canfield, Marcus, and associates.
Lectures, conferences, and seminars addressing ethical and personal issues relevant to the practice of medicine.

Medicine 102S. Introduction to the patient
Dr. Morris and associates.
A series of interdepartmental presentations and demonstrations followed by an intensive four-week preceptorship (at Harlem, Overlook, Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student learns to take a comprehensive medical history and to perform a complete physical examination.

Microbiology 101F. General microbiology
Drs. Ginsberg, Silverstein, and departmental staff.
Lectures, conferences, and laboratory covering the basic principles of cell regulation, immunology, virology, and the biology of pathogenic organisms.

Anatomy-Physiology 106S. Neural science
Drs. Castellucci, Kandel, Kelly, Kupfermann, Rowland, and Schwartz.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

Nutrition 101F. Introduction to nutrition
Dr. Winick and associates.
Lectures that define the elements of nutrition essential for good health.

Pathology 101F. General pathology
Dr. Leftkowitch and departmental staff.
Lectures, conferences, and laboratory emphasizing the mechanisms of injury and repair in cells, tissues, and organ systems.

Pathology 102S. Systemic pathology
Dr. J. Fenoglio and departmental staff.
Lectures, conferences, and laboratory exercises including light and electron microscopic studies to elucidate the pathogenesis of findings in disease.

Pathology 103S. Neuropathology
Dr. Duffy and associates.
Lectures, demonstrations, and microscopic studies of diseases of the nervous system.

Pharmacology 101S. General and special pharmacology
Dr. Kahn and departmental staff.
Lectures, seminars, and demonstrations to elucidate the basic principles essential for the effective use of drugs as therapeutic or diagnostic agents.

Medicine 105F. Physician-patient relationship
Dr. Park and associates.
Preceptor sessions emphasizing the central role of the physician-patient relationship in the practice of medicine and the importance of the effects of health care organization and other factors on that relationship.

Physiology 101F. Human physiology
Dr. Nocenti and departmental staff.
Lectures, demonstrations, and conferences to define the function of specific cells, tissues, and organs and their homeostatic mechanisms.

Psychiatry 101F. Psychiatric medicine, I
Dr. Arkow and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Psychiatry 102S. Psychiatric medicine, II
Dr. Arkow and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health 101F. Structure of health care systems
Dr. Rosenberg and associates.
Lectures and seminar groups on the current organization of health care.

Public Health 102F. Epidemiology
Dr. Paneth and associates.
Lectures and seminars to present epidemiological principles.

Public Health 103F. Biostatistics
Dr. Fleiss and associates.
Lectures on the basic elements of biostatistics applicable to medicine.

Public Health 104S. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnosis of these diseases.

Major Clinical Year

Anesthesiology 201. Clinical clerkship in anesthesiology
Dr. Bendixen and staff at the Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannikin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannikin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe indications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, prevention, diagnosis, and treatment of local anesthetic drug toxicity.

Dermatology 201.
Dr. Harber and staff.

Medicine 201. Clinical clerkship in medicine
Dr. Garvey and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke's Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology 201. Clinical clerkship in neurology
Dr. Rowland and staff at the Neurological Institute of the Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology 202. Neurosurgery
Dr. Stein and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Obstetrics and Gynecology 201. Clinical clerkship in obstetrics and gynecology
Dr. Rosenfeld and staff at the Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the student learns to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecologic tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the student learns the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology 201. Clinical clerkship in ophthalmology
Dr. Campbell and staff.

Orthopedic Surgery 201. Clinical clerkship in orthopedic surgery
Dr. Dick and staff at the Presbyterian Hospital.
On the orthopedic surgery clerkship students learn to perform an orthopedic physical examination and to take an orthopedic history from a patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology 201. Clinical clerkship in otolaryngology
Dr. Abramson and staff at the Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics 201. Clinical clerkship in pediatrics
Dr. Katz and staff at the Babies Hospital (Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Psychiatry 201. Clinical clerkship in psychiatry
Dr. Malitz and staff at the New York State Psychiatric Institute, Harlem, Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology 201. Diagnostic radiology (medical)
Dr. Baker and staff.

Radiology 202. Diagnostic radiology (surgical)
Dr. Baker and staff.

Rehabilitation Medicine 201.
Dr. Downey and staff at the Neurological Institute of the Presbyterian Hospital.
Included in *Neurology 201.*

Surgery 201. Clinical clerkship in surgery
Dr. Reemstma and staff at the Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery 202. Lectures and demonstrations in surgical pathology
Dr. Reemstma and staff; Dr. Perzin and staff.
As part of the surgical clinical clerkship (*Surgery 201*), these three one-and-a-half hour sessions per week describe various selected problems in surgical pathology. The didactic lectures are presented by the surgical "academic senior resident" (PGY5). This resident presents the clinical aspects of various surgical diseases and is assisted by a surgical pathology senior resident, who demonstrates gross specimens and microscopic slides appropriate to the topics and patients being discussed.

Urology 201. Clinical clerkship in urology
Dr. Olsson and staff.
During the clinical clerkship in urology students learn to identify common disorders of the genito-urinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

Fourth Year

Interdepartment 301. Ambulatory care/public health selective
Dr. C. Ortiz-Neu, course coordinator.
Each student in the fourth year is required to select an elective in ambulatory care, which includes clerkship experience in Public Health/Community Medicine. (For the rest of the Fourth Year see page 43 and the elective catalogue.)

Special Programs

M.D.–Ph.D. Program

This is a cooperative program sponsored by the Graduate School of Arts and Sciences and the College of Physicians and Surgeons for students who have had a strong undergraduate program in science and have a strong commitment to biomedical research. The program allows students to work toward the Ph.D. degree in one of the disciplines listed below in addition to earning the M.D. degree.

Students who wish to participate in the program must be admitted to the College of Physicians and Surgeons and to the Graduate School of Arts and Sciences. Separate applications must be made to the College of Physicians and Surgeons and to the Graduate School of Arts and Sciences.

Students complete the basic science requirements of the medical program and enter a participating department of the Graduate School to carry out the Ph.D. program. They then complete the balance of the requirements for the M.D. degree.

The participating Ph.D. programs are:

Anatomy and Cell Biology
Biochemistry
Biological Sciences
Chemistry
Epidemiology
Human Genetics and Development
Mathematical Statistics
Microbiology
Nutrition
Pathology
Pharmacology
Physiology
Psychology

For additional information students should write to Dr. David Schachter, Chairman, Graduate Biomedical Sciences Advisory Committee, Department of Physiology, College of Physicians and Surgeons, 630 West 168th Street, New York, N.Y. 10032.

To apply, students should request an application from the Graduate School of Arts and Sciences and an application from the College of Physicians and Surgeons.

Joint M.D./M.P.H. Program

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the health care delivery system and the technological, social, and political forces that contribute to the problems and patterns of illness, medical care, and delivery of services. They also develop concrete skills of research or administration applicable in interdisciplinary health service settings, both clinical and community based.

Before being considered for admission to the joint degree program, the applicant must first be accepted as a degree candidate in the College of Physicians and Surgeons. Formal application to the School of Public Health may then be made at any time before the student enters the fourth year of medical training. The overall length of the joint program, registration, and scheduling patterns differ for individual students. The total elapsed time could be as short as four years, but might extend beyond the four-year graduation date of the medical school. In general, during the first three years the joint degree student uses vacation and free time in the medical schedule to cross-register for public health courses. In the fourth year the student registers concurrently in the two schools, permitting opportunities to complete core, track, and elective public health courses and also carry the required clinical elective work in the medical curriculum. The M.D. and the M.P.H. degrees may be awarded simultaneously at the end of the fourth year; either degree may be awarded separately when the requirements have been met.

For further information, consult the Dean's Office in the College of Physicians and Surgeons,

630 West 168th Street, New York, N.Y., 10032, or the Dean's Office in the School of Public Health, 600 West 168th Street, New York, N.Y. 10032.

Programs in Physical Therapy and Occupational Therapy

Educational programs are offered by the Department of Rehabilitation Medicine to students who have already earned a bachelor's degree. They may apply for admission to a two-year program leading to the Master of Science degree in physical therapy or occupational therapy, or a second professional Master of Science degree in occupational therapy education or occupational therapy administration. Details are given in the bulletin of Programs in Physical Therapy and Occupational Therapy.

Program of the Center for Psychoanalytic Training and Research

A course of training in the theory and practice of psychoanalytic medicine is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. The program, a minimum of four years in length, leads to the award of a certificate in Psychoanalysis. For details, see the bulletin of the Center (formerly the Psychoanalytic Clinic).

Programs in Nutrition

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a twelve-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with a knowledge of nutrition.

Requirements for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

Under the jurisdiction of the Executive Committee on Graduate Instruction of the Graduate School of Arts and Sciences, students may follow a program of studies leading to the Ph.D. degree. Course work and thesis research in nutritional biochemistry and in clinical and public health nutrition are carried out under the guidance of the Doctoral Program Subcommittee on Nutrition.

Requirements for admission: successful completion of the Master of Science degree program as outlined above, or the equivalent, and demonstrated scholarly ability in pursuing advanced studies and research. In addition, students must fulfill the general requirements for the degree which govern all Ph.D. candidates in the University.

A program of postdoctoral training in nutrition is offered for qualified individuals having the degree of Doctor of Medicine or the degree of Doctor of Philosophy who intend to pursue careers in teaching and research in nutrition. The program includes clinics, selected nutrition courses, seminars, and participation in research projects, with a view to qualifying the individual for teaching in medical schools or in nutrition departments of graduate schools. Specific training is given in the areas of nutrition and development, prenatal growth, obesity, endocrinology, and nutrition and metabolism. This program has considerable flexibility and is arranged with the individual to suit his or her particular goals and needs.

Inquiries concerning the above programs may be directed to the Office of the Director, Institute of Human Nutrition, 701 West 168th Street, New York, N.Y. 10032.

Program in Clinical Genetics

While patient services in genetics are rendered through the existing clinical departments of the College of Physicians and Surgeons, the teaching, research, and clinical services in genetics are coordinated and integrated by the Program in Clinical Genetics, under the chairmanship of Dr. Arthur Bloom, Professor of Pediatrics and of Human Genetics and Development. The membership of this committee includes physicians and scientists from the Department of Human Genetics and Development and from numerous other departments of the College.

The Program in Clinical Genetics offers fellowships in genetics and training in the genetic aspects of a wide range of medical and surgical specialties. The Program provides postgraduate clinical teaching, elective courses for medical students, and regular conferences on clinical genetics. The clinical and laboratory facilities of the Presbyterian Hospital, Babies Hospital, and other affiliated hospitals are all utilized in the Program, and the research laboratories of the Department of Human Genetics and Development actively participate in it.

Interested applicants should write for further information to the Chairman, Program in Clinical Genetics, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, N.Y. 10032.

Program in Biophysics and Biophysical Chemistry

The program of study in biophysics and biophysical chemistry, which leads to the award of the degree of Doctor of Philosophy, is under the jurisdiction of the Graduate School of Arts and Sciences. Information about admission and degree requirements and courses of instruction is given in the bulletin of the Graduate School of Arts and Sciences.

Endowed Lectureships and Visiting Professorship

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and a visiting professorship:

The *Cartwright Lecture Fund,* established under the will of Benjamin Cartwright, made possible biennial lectures under the sponsorship of the P&S Alumni Association during the period 1881–1912. A new series of Cartwright Lectures was inaugurated under the College's auspices in November 1974.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, now Professor Emeritus of Immunochemistry, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *David Seegal Lectureship and Visiting Professorship Fund,* given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

Prizes and Awards

The *Distinguished Service Award* of the College of Physicians and Surgeons is given annually at Commencement exercises to a member of the faculty for outstanding contributions to medicine.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Dr. Harold and Golden Lamport Research Awards* were initiated in 1983 to recognize outstanding young researchers in basic science and in clinical science.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Dean's Award for Outstanding Contributions to Teaching* was inaugurated in the mid-1970s as an appropriate way to recognize faculty members who are notably effective as teachers or leaders in education.

IV
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Postgraduate Programs

Opportunities for continuing medical education beyond the M.D. degree are offered at the College of Physicians and Surgeons through three major programs: (1) the training of specialists by means of hospital residencies; (2) special courses in general medicine and in the specialties, for practicing physicians and physicians in training who wish to renew and continue their educational experiences in the various fields of medicine; and (3) the Doctor of Medical Science Program, for physicians with particular interest and competence in research in the basic sciences. Further information about these programs may be obtained from the Office of the Dean of the Faculty of Medicine.

Graduate Training of Specialists

The program offers training opportunities through fellowships at the College of Physicians and Surgeons and residencies at affiliated hospitals for holders of the M.D. degree. Proper training for specialization includes four major elements. First, it provides a comprehensive clinical experience as a resident in a hospital that is equipped and staffed to provide graded responsibilities under the supervision of experts in the selected specialty. Second, it disciplines the resident in scientific attitudes toward health and disease and enriches the clinical experience through advanced training in those medical sciences that are largely concerned with the resident's specialty. Third, it enables the resident to see and to begin to understand the effect of illness on the individual patient and the response of that person to the illness and to the physician. The relationships that the resident physician develops with individual patients set the pattern for his or her participation in the delivery of health care after the completion of the residency. Finally, it gives the student the opportunity, either as a resident or as a fellow, to do basic or clinical research. This, in turn, may stimulate the type of creative productivity that may earn the student a recommendation for admission to a program leading to the award of the Doctor of Medical Science degree.

Postgraduate Courses for Practicing Physicians and Specialists

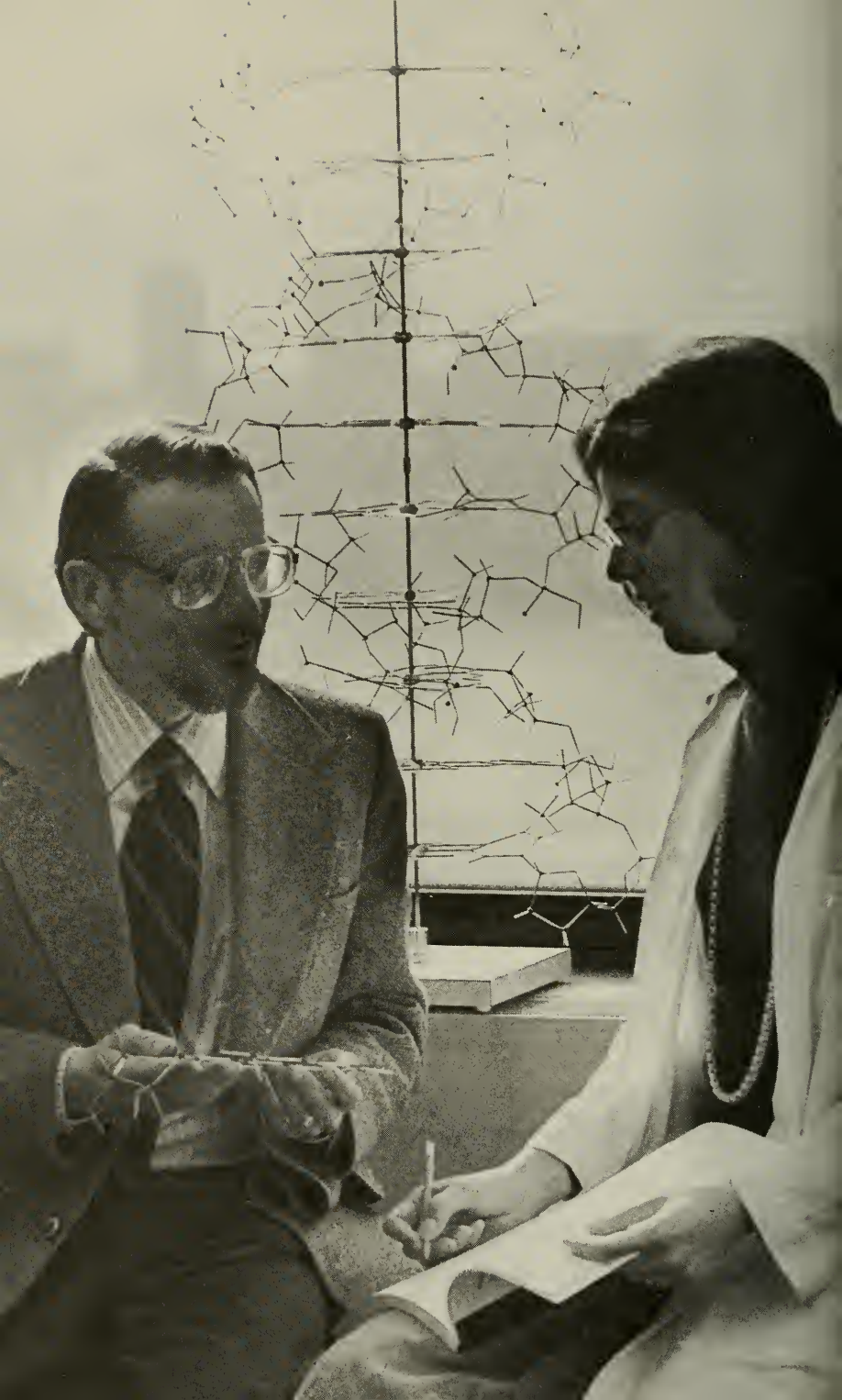
A variety of short courses have been organized at hospitals and clinics affiliated with the University; they are available at the Columbia-Presbyterian Medical Center and at the other affiliated hospitals. No University credit or certificates are granted for these courses, but continuing medical education credit is granted through the Physicians Recognition Award of the American Medical Association.

Courses for the general practitioner furnish opportunities to keep abreast of new knowledge and the latest methods of diagnosis, treatment, and prevention; and to learn the indications, limitations, and value of those technical procedures that require the attention of a qualified specialist. The instruction consists largely of first-hand clinical experience, lectures, demonstrations, and discussion.

For those already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the preparation necessary to enable them to benefit by the advanced instruction.

Program for the Doctor of Medical Science Degree

The University confers the Med.Sc.D. degree upon a few physicians who have completed a research project in one of the basic science fields. Only staff members of the Columbia-Presbyterian Medical Center are eligible for this degree. A minimum of two years of full-time work in the basic science field is required. Additional requirements include completion of a significant and original research project, the passing of comprehensive and oral examinations, and submission of a dissertation.



Departments of Instruction

Listed are only those faculty appointments and promotions approved by July 1, 1983.

The designation "also" is used with the name of an individual holding a joint appointment in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in." In either case, the name appears in both departmental lists.

Anatomy and Cell Biology

Professor and Chairman

Michael D. Gershon. *B.A., Cornell, 1958; M.D., 1963*

Professors

Melvin L. Moss. *B.A., New York University, 1942; D.D.S., Columbia, 1946; Ph.D., 1954*
Charles R. Noback. *B.S., Cornell, 1936; M.S., New York University, 1938; Ph.D., Minnesota, 1942*
Karl H. Pfenninger. *M.D., Zurich, 1971*
Virginia M. Tennyson (also Pathology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Adjunct Professors

Manfred Otto Nahmmacher. *Ph.D., Giessen (Germany), 1960*
Samuel Rosner. *M.D., Royal College of Physicians and Surgeons (Edinburgh), 1940; F.I.C.S., 1951*

Professor of Clinical Surgery

Bard Cosman. *B.A., Columbia, 1952; M.D., 1955*

Associate Professors

Ernest W. April. *B.S., Tufts, 1961, Ph.D., Columbia, 1969*
Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*
Stephen B. Doty (in Orthopedic Surgery). *B.A., Rice, 1961; M.A., 1963; Ph.D., 1965*
Richard H. Kessin. *B.A., Yale, 1966; Ph.D., Brandeis, 1971*
Eladio A. Nunez. *B.S., St. John's (New York), 1951; M.S., 1953; Ph.D., New York University, 1964*
Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*

Adjunct Associate Professor

Richard M. Hoar. *B.A., Dartmouth, 1950; Ph.D., Kansas, 1956*

Associate Professor of Clinical Pathology

Arline D. Deitch. *B.A., Brooklyn, 1944; M.A., Columbia, 1946; Ph.D., 1954*

Assistant Professors

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*
Craig H. Bailey (in Psychiatry and the Center for Neurobiology and Behavior). *B.A., Lehigh, 1967; M.S., 1969; Ph.D., 1973*
John E. Bergmann. *B.S., Massachusetts Institute of Technology, 1972; Ph.D., 1979*
Halina D. Den (in Neurology). *B.S., Frankfort, 1949; M.S., New York University, 1954; Ph.D., Michigan, 1958*
Christopher A. Gabel. *B.S., Iowa State, 1975; Ph.D., Washington (Seattle), 1979*
Masataka Kawai. *B.A., Tokyo, 1966; Ph.D., Princeton, 1971*
Marie-France Maylie. *Baccalaureate, Algiers, 1960; L.èsSc., Marseilles, 1963; Docteur de Specialité, 1967; Ph.D., 1972*
Tuan Duc Pham (also Pharmacology). *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; M.Phil., Ph.D., Columbia, 1975*
John E. Pintar. *B.A., Case Western Reserve, 1970; Ph.D., Oregon, 1977*
Samuel M. Schacher (in Psychiatry and the Center for Neurobiology and Behavior). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*
Taube Pearl Rothman. *B.A., City College (New York), 1969; Ph.D., Cornell, 1975*
Klaudiusz R. Weiss (in Psychiatry) (in Dentistry) (in the Center for Neurobiology and Behavior). *M.A., Warsaw, 1967; Ph.D., State University of New York (Stony Brook), 1973*
Larry D. Witte (in Medicine). *B.S., Iowa State, 1970; Ph.D., 1974*

Adjunct Assistant Professors

Robert M. Bowker (in Psychiatry). *B.S., Springfield, 1969; V.M.D., Pennsylvania, 1973; Ph.D., 1979*
Ian Blair Fries. *B.A., Columbia, 1964; M.D., 1968*

Associate Research Scientists

James P. Kelley. *B.A., Harpur, 1966; Ph.D., Washington (St. Louis), 1971*
Robert F. Payette. *B.A., Providence, 1969; M.D., Pennsylvania, 1974*

SPECIAL LECTURER
Charles A. Ely, Ph.D.

SENIOR STAFF ASSOCIATES
Jakob Franke, M.D.
Diane L. Sherman, B.S.

STAFF ASSOCIATES
Linda B. Friedman, B.A.
Michael N. Lehman, Ph.D.

INSTRUCTOR
Sharon C. Colacino, Ph.D.

Anesthesiology

Professor and Chairman

Henrik H. Bendixen. *M.D., Copenhagen, 1951*

At Presbyterian Hospital

Professors

Mieczyslaw Finster (also Obstetrics and Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*
Lester C. Mark. *M.D., Toronto, 1941*
Gabriel G. Nahas. *M.D., Toulouse, 1944; Ph.D., Minnesota, 1953*
Shih-Hsun Ngai (also Pharmacology). *M.D., National Central (Nanking), 1944*

Professors of Clinical Anesthesiology

Leonard Brand. *B.S., Yale, 1946; M.D., Columbia, 1949*
Edgar C. Hanks. *B.A., Gettysburg, 1943; M.D., Jefferson, 1947*
Ernest Salanitre. *B.S., College of the City of New York, 1936; M.D., Rome, 1942*

Adjunct Professor

Sidney Spector (also Pharmacology). *B.S., Denver, 1948; M.S., 1950; Ph.D., Jefferson, 1956*

Associate Professors

Allen I. Hyman (also Pediatrics). *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*
Hisayo O. Morishima. *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1959*
Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*
J. Gilbert Stone. *B.A., Dartmouth, 1960; M.D., State University of New York (Downstate), 1964*
Lubos Triner. *M.D., Charles (Prague), 1955; Ph.D., 1961*

Associate Clinical Professor

Jen-Tieng Wung. *M.D., Taipei Medical College, 1956*

Associate Professors of Clinical Anesthesiology

Hoshang Jal Khambatta. *M.D., Karachi, 1958*
Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*
Hilda Pedersen. *M.B., Ch.B., Edinburgh, 1958*

Assistant Professors

Jeffrey Askanazi. *B.S., Worcester Polytechnic Institute, 1971; M.D., State University of New York (Syracuse), 1975*
Keith J. Bernstein. *B.A., New York University, 1968; M.D., State University of New York (Downstate), 1974*
Donald Bluh. *B.A., Columbia, 1973; M.S., Stanford, 1975; M.D., Columbia, 1980*
Richard Y. Z. Chen. *M.D., National Taiwan (Taipei), 1971*
Arvin H. Chin. *B.S., Cornell, 1970; M.D., 1974; J.D., Columbia, 1981*
Michael C. Damask. *B.A., Case Western Reserve, 1970; M.D., Chicago Medical School, 1974*
Arthur Donald Finck. *B.S., Lafayette, 1968; M.D., Columbia, 1972*
Ingrid Anne-Marie Fitz-James. *B.A., Sarah Lawrence, 1973; M.D., Columbia, 1977*
Darrell Goode. *B.S., Clark, 1972; M.D., Tufts, 1980*
Geordie P. Grant. *B.S., William and Mary, 1968; M.D., New Jersey College of Medicine and Dentistry, 1978*
Warren K. Grodin. *B.A., Minnesota, 1967; M.D., London, 1975*
Vance Lauderdale. *B.A., Harvard, 1945; M.D., Columbia, 1947*
Laurence P. Mark. *B.S., Harvey Mudd, 1975; M.D., Columbia, 1979*
Pat J. Martin. *B.S., Columbia, 1970; M.D., 1974*
Samantha Mullis. *B.S., Michigan State, 1975; M.D., 1979*
Mark William Ollinger. *B.A., Washington (St. Louis), 1975; M.D., New York Medical College, 1979*
Eugene Ornstein. *M.S., Polytechnic Institute of Brooklyn, 1973; Ph.D., 1977; M.D., Miami (Florida), 1979*

Leila M. Pang (also Pediatrics). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*
Nancy Paetzold. *B.S., Adelphi, 1973; M.D., Columbia, 1978*
Richard K. Raker. *B.A., Michigan, 1969; M.D., 1973*
David M. Richlin. *B.A., Drew, 1970; M.D., New Jersey College of Medicine and Dentistry, 1974*
Stanley H. Rosenbaum (also Medicine). *B.A., Columbia, 1967; M.A., Harvard, 1969; M.D., Cornell, 1973*
Jeffrey Sherman. *B.A., State University of New York (Downstate), 1973; M.D., New York Medical College, 1978*
Yvonne Vulliemoz. *M.S., Lausanne, 1956; Ph.D., Paris, 1969*
Stephen Weitzman. *B.A., Bowdoin, 1974; M.D., Columbia, 1978*
Sook Young Woo. *B.S., Ewha Women's University (Seoul), 1968; M.D., 1972*

Assistant Professors of Clinical Anesthesiology

Dorothy A. Black. *B.A., Rutgers, 1957; M.A., Columbia, 1959; M.D., Harvard, 1965*
Donald C. Brody. *B.A., Harvard, 1952; M.D., Boston, 1956*
Kathryn A. W. Cozine. *M.D., Johns Hopkins, 1961*
Ellise S. Delphin. *B.A., Barnard, 1971; M.D., Columbia, 1975*
Alber Faltas. *M.D., Kasr-El-Ainy Medical School (Egypt), 1961*
Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*
John W. Hennessey. *B.S., Massachusetts, 1961; M.D., Tufts, 1966*
Ina Lieberman. *B.A., Barnard, 1964; M.D., New York University, 1968*
Peter Salgo. *B.A., Columbia, 1971; M.D., 1975*
Kevin B. Sanborn. *B.S., Manhattan, 1969; M.D., New York University, 1973*
Medhat Riad Wassef. *M.B., B.Ch., Cairo, 1957*
Gerald S. Weinberger. *M.D., New York University, 1948*
Howard Wulfson. *B.S., City College (New York), 1966; M.D., State University of New York (Upstate), 1970*
Joseph Chuan-Shih Yang. *B.S., Taiwan, 1959; M.D., Medical Academy (Dusseldorf), 1964*

Assistant Professor of Clinical Psychology

Robert Dworkin. *B.A., Pennsylvania, 1971; Ph.D., Harvard, 1977*

INSTRUCTOR
Chi-man Lo, M.D.

RESEARCH ASSOCIATES
Salha S. Daniel, Ph.D.
Mariagnes Verosky, B.A.
Alvin Wald, Ph.D.

STAFF ASSOCIATES
Marcia Kemper, B.A.
Michael Lauria, M.S.
Richard Charles Meyer, B.A.
Carol Pantuck, B.A.
Susan Shaw, B.S.

At Mary Imogene Bassett Hospital

Associate Clinical Professor

Andrew L. Rauscher. *M.B., London, 1963; M.B., B.S., University College Hospital, 1966*

Assistant Clinical Professors

William R. Crawford. *B.A., Harvard, 1954; M.D., Rochester, 1962*
Edward Palmer. *B.A., Dartmouth, 1967; M.D., Cornell, 1971*

At Harlem Hospital

Associate Professor of Clinical Anesthesiology

Herbert G. Cave. *B.A., College of the City of New York, 1942; M.D., Howard, 1947*

Assistant Professors of Clinical Anesthesiology

Mita Dhruvkumar Gunderia. *B.S., Wilson (Bombay), 1970; M.D., Grant (Bombay), 1976*
Archibald K. Hinds. *B.A., College of the City of New York, 1952; M.D., Montpellier, 1962*
Hermann Mazard. *B.S., Haiti, 1955; M.D., 1975*
Gilbert Phanor. *B.S., Lycée T. Gilboro, 1953; M.D., Medical School of Haiti, 1960*
Madisetti Swamy. *M.B., B.S., Osmania (India), 1954*
J. Sinclair Trimiar. *B.S., Howard, 1960; D.D.S., 1964*
Francis Weekes. *B.S., Johnson C. Smith, 1941; D.D.S., Meharry, 1949*

Assistant Clinical Professors

Samuel C. Brisbane. *B.A., Lincoln, 1937; M.D., Howard, 1949*
Oscar N. Graves. *B.A., Lincoln, 1944; M.D., Howard, 1949*

At Overlook Hospital

Assistant Clinical Professors

John Rocco Calabro. *B.S., Manhattan, 1971; M.D., New Jersey College of Medicine and Dentistry, 1975*
Henry A. Connolly, Jr. *B.S., Fordham, 1951; M.D., Hamburg, 1955*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*
Mary Louise White. *B.S., Maryland, 1943; M.D., 1945*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Sami A. M. Abadir, M.D.
Jane deV. Stark, M.D.

At St. Luke's–Roosevelt Hospital Center

Associate Professor

Louise Blancato. *B.S., Fordham, 1942; M.D., New York Medical College, 1945*

Assistant Professors of Clinical Anesthesiology

Enzio Gallozzi. *M.D., Rome, 1953*
Joseph Iacovelli. *B.A., Buffalo, 1952; M.D., Bologna, 1958*

Assistant Clinical Professor

Ronald A. Andree. *B.A., Miami (Ohio), 1955; M.D., Case Western Reserve, 1959*

ASSOCIATES IN CLINICAL ANESTHESIOLOGY

Guglielmina Bettini, M.D.
Hilda S. Liu, M.D.
Alfred T. C. Peng, M.D.
Altagracia H. Polanco, M.D.

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY

Hussein Dilber, M.D.
Julio M. Garcia Rodriguez, M.D.
Byung Yang Kim, M.D.
Zdan J. Korduba, M.D.

INSTRUCTORS (*continued*)
Han Ghiang Lee, M.D.
Ignacio U. Ngo, M.D.
Kyaw Nyunt, M.B., B.S.

INSTRUCTORS (*continued*)
Nimal Patel, M.D.
Kenneth A. Rothenberg, M.D.
Kristappa Sangavaram, M.D.

Biochemistry

Robert Wood Johnson, Jr., Professor and Chairman

Isidore S. Edelman. *B.A., Indiana, 1941; M.D., 1944*

Professors

Richard Axel (also Pathology). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*
Reinhold Benesch. *B.Sc., Leeds, 1941; M.Sc., 1945; Ph.D., Northwestern, 1950*
Ruth E. Benesch. *B.Sc., London, 1946; Ph.D., Northwestern, 1951*
Max A. Eisenberg. *B.A., Brooklyn, 1938; M.S., New York University, 1941; Ph.D., Duke, 1950*
Philip Feigelson. *B.S., Queens (New York), 1947; Ph.D., Wisconsin, 1951*
Robert F. Goldberger. *M.D., New York University, 1958*
Dezider Grunberger (also Public Health). *M.Sc., Technical (Czechoslovakia), 1950; Ph.D., Czechoslovakia Academy of Sciences, 1956; Sc.D., 1968*
Barry Honig. *B.Sc., Polytechnic Institute (Brooklyn), 1963; M.A., Johns Hopkins, 1964; Ph.D., Weizmann Institute (Israel), 1968*
Arthur Karlin (also Neurology). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*
Alvin I. Krasna. *B.A., Yeshiva, 1950; Ph.D., Columbia, 1955*
Seymour Lieberman (in Obstetrics and Gynecology). *B.S., Brooklyn, 1936; M.S., Illinois, 1937; Ph.D., Stanford, 1941*
Barbara W. Low. *B.A., Oxford, 1942; M.A., 1946; D.Phil., 1948*
Maurice M. Rapport (in Psychiatry). *B.S., College of the City of New York, 1940; Ph.D., California Institute of Technology, 1946*
Parithychery Srinivasan. *B.Sc., Madras, 1946; Ph.D., 1953*

Adjunct Professor

Benno P. Schoenborn. *B.A., California (Los Angeles), 1958; Ph.D., New South Wales (Australia), 1962*

Associate Professors

Roger M. Burnett. *B.Sc., The Polytechnic (London), 1964; Ph.D., Purdue, 1970*
Allen M. Gold. *B.A., Chicago, 1950; Ph.D., Harvard, 1955*

Adjunct Associate Professor

John D. Karkas. *Ph.D., Columbia, 1962*

Research Scientist

David Elwyn (in Surgery). *B.A., Columbia, 1941; Ph.D., 1950*

Assistant Professors

George Alexander (in Psychiatry). *B.S., Hobart, 1949; Ph.D., Rutgers, 1953*
Frederick W. Alt. *B.S., Brandeis, 1971; Ph.D., Stanford, 1978*
Hagan P. Bayley. *B.A., Oxford, 1974; Ph.D., 1979*

Gerard Bricogne. *Maitrise de Mathematique, Nancy (France), 1971; Diplome d'Engenieur, 1972; Ph.D., Cambridge, 1977*
Stephen Goff. *B.A., Amherst, 1973; Ph.D., Stanford, 1978*
Lee Makowski. *B.S., Brown, 1971; M.S., Massachusetts Institute of Technology, 1973; Ph.D., 1976*
Herbert L. Meltzer (in Psychiatry). *B.S., Long Island, 1942; Ph.D., Columbia, 1950*
James L. Roberts (in the International Institute for the Study of Human Reproduction). *B.S., Colorado State, 1973; Ph.D., Oregon, 1977*
Bonnie Ann Wallace. *Ph.D., Yale, 1977*

Associate Research Scientists

Robert N. Cox. *B.A., Stanford, 1966; Ph.D., Columbia, 1978*
Jade Li. *Ph.D., Harvard, 1978*
Sahebarao Mahadik (in Psychiatry). *Ph.D., Poona (India), 1969*
Laura Ponticorvo. *Ph.D., Columbia, 1968*
Alexander Rashin. *Candidate, Protein Research Academy of Sciences (USSR), 1977*
Eftihia Tzilianos. *M.Sc., Witwatersrand (South Africa), 1968; Ph.D., 1972*

Adjunct Associate Research Scientist

Barry Potvin. *B.A., Brandeis, 1968; Ph.D., North Carolina, 1973*

SPECIAL LECTURERS
Erwin Chargaff; Ph.D.
Zacharias Dische, M.D. (in Ophthalmology)
David Nachmansohn, M.D. (in Neurology)
David B. Sprinson, Ph.D.

SENIOR STAFF ASSOCIATE
Philip E. Bourne, Ph.D.

ASSOCIATE
Carola P. Zimmerman, Ph.D.

STAFF ASSOCIATE
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At Mary Imogene Bassett Hospital

Adjunct Associate Professor

Theodore Peters, Jr. *B.S., Lehigh, 1943; Ph.D., Harvard, 1950*

Adjunct Assistant Professor

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At St. Luke's–Roosevelt Hospital Center

Associate Research Scientists

Utapalendu S. Maitra. *M.S., Calcutta, 1963; Ph.D., 1971*
Venkitachalem P. Mohan. *B.Sc., Kerala (India), 1969; M.Sc., 1971; Ph.D., Indian Institute of Science, 1977*

Dermatology

Richard and Mildred Rhodebeck Professor and Chairman

Leonard C. Harber. *B.A., Johns Hopkins, 1949; M.D., New York University, 1953*

At Presbyterian Hospital

Professor

Richard L. Edelson. *B.A., Hamilton, 1966; M.D., Yale, 1970*

Clinical Professor

Saul L. Sanders. *B.A., Kenyon, 1950; M.D., Cornell, 1952*

Associate Professor of Clinical Dermatology

Maureen B. Poh. *B.S., Siena, 1964; M.D., Tennessee, 1967*

Associate Clinical Professors

Jack Eisert. *B.A., Cornell, 1952; M.D., State University of New York (Downstate), 1956*
David N. Silvers (also Pathology). *B.A., Haverford, 1964; M.D., Duke, 1968*
Robert R. Walther. B.A., Cornell, 1969; M.D., North Carolina, 1973
Richard L. Walzer. *B.A., Harvard, 1952; M.D., Columbia, 1956*

Assistant Professors

Robert B. Armstrong. *B.A., Haverford, 1969; M.D., Columbia, 1973*
Carole Louise Berger (in Pathology). *B.S., City College (New York), 1966; M.A., Columbia, 1971; M.S., 1974; Ed.D., 1976*

Assistant Clinical Professors

Irving Abrahams. *B.A., New York University, 1948; M.D., State University of New York (Downstate), 1954*
Vincent S. Beltrani. *B.A., Brooklyn, 1953; M.D., Columbia, 1957*
Einar A. Juhlin. *B.S., Illinois, 1950; M.D., Royal Charles (Sweden), 1957*
Steven R. Kohn. *B.A., Rutgers, 1964; M.D., Boston, 1968*
Theodor A. Labow. *B.S., Miami (Florida), 1951; M.D., Tufts, 1955*
Jack H. Rozen. *B.S., Pittsburgh, 1958; M.D., 1962*

Associate Research Scientist

Francis P. Gasparro. *B.S., Villanova, 1966; Ph.D., Princeton, 1971*

SPECIAL LECTURERS
Margarita S. Hutner, Ph.D.
J. Lowry Miller, M.D.

LECTURER
Angelo A. Lamola, Ph.D.

ASSOCIATES IN CLINICAL DERMATOLOGY
William G. Atwood, M.D.
Robert P. Feinstein, M.D.
Paul Ira Schneiderman, M.D.
Eugene W. Sweeney, M.D.
Harvey I. Weinberg, M.D.

INSTRUCTORS IN CLINICAL DERMATOLOGY
Timothy J. Corey, M.D.
Leon K. Demar, M.D.
Jeffrey S. Kezis, M.D.
Joseph A. Penner, M.D.
Douglas Pravda, M.D.
Joseph S. Shapiro, M.D.
Luis A. Suarez, M.D.

ASSISTANTS IN CLINICAL DERMATOLOGY
Robert M. Bernstein, M.D.
William J. Cunningham, M.D.

ASSISTANTS (*continued*)
Ellen C. Fithian, M.D.
Carmen J. Garcia, M.D.
Bruce E. Katz, M.D.
Joan P. Noroff, M.D.
Margaret S. Ravits, M.D.
Kass Sadri, M.D.
Robert S. Seibt, M.D.
George E. Thorne, M.D.

STAFF ASSOCIATES
Debra Ann Kaden, Ph.D.
Massimo Sassaroli, Ph.D.

At. St. Luke's–Roosevelt Hospital Center

Clinical Professor

Alexander W. Young, Jr. *B.S., Maryland, 1944; M.D., 1946*

Assistant Clinical Professors

William P. DePietro. *B.S., Massachusetts Institute of Technology, 1972; M.D., Georgetown, 1976*
Herbert H. Hochman. *B.A., Columbia, 1966; M.D., Tulane, 1970*
Peter C. Lombardo. *B.S., Rochester, 1955; M.D., Albany, 1959*
David Sibulkin. *B.A., New York University, 1962; M.D., 1966*
Gregory Zalar. *B.S., George Washington, 1965; M.D., 1969*

ASSISTANT IN CLINICAL DERMATOLOGY
Joshua S. Berger, M.D.

INSTRUCTOR IN CLINICAL DERMATOLOGY
Elaine V. DiGrande, M.D.

Human Genetics and Development

Professor and Chairman

Charles R. Cantor. *B.A., Columbia, 1963; Ph.D., California (Berkeley), 1963*

Professors

Kimball C. Atwood. *B.A., Columbia, 1942; M.D., New York University, 1946*
Arthur Bank (also Medicine). *B.A., Columbia, 1956; M.D., Harvard, 1960*
Arthur D. Bloom (also Pediatrics). *B.A., Harvard, 1956; M.D., New York University, 1960*
Argiris Efstratiadis. *Dr.Med.Sci., Athens, 1971; M.D., 1966; Ph.D., Harvard, 1976*
Georgiana Jagiello (also Virgil Damon Professor of Obstetrics and Gynecology). *B.A., Boston, 1949; M.D., Tufts, 1955*
Elvin A. Kabat (also Microbiology) (in Neurology). *B.S., College of the City of New York, 1932; M.A., Columbia, 1934; Ph.D., 1937*
Orlando J. Miller (also Obstetrics and Gynecology). *B.S., Yale, 1945; M.D., 1950*

Professor of Mathematical Statistics and Genetics

Howard Levene (in Biological Sciences and Mathematical Statistics). *B.A., New York University, 1941; Ph.D., Columbia, 1947*

Professors of Clinical Psychiatry

L. Erlenmyer-Kimling. *B.S., Columbia, 1957; Ph.D., 1960*
John D. Rainer. *B.A., Columbia, 1941; M.A., 1944; M.D., 1951*

Adjunct Professors

Sidney Udenfriend. *B.S., College of the City of New York, 1939; Ph.D., New York University, 1948*
Arthur Weissbach. *B.S., College of the City of New York, 1953; Ph.D., George Washington, 1957*
Herbert Weissbach. *B.S., College of the City of New York, 1953; M.S., George Washington, 1955; Ph.D., 1957*

Associate Professor of Clinical Pediatrics

Dorothy Warburton. *B.S., McGill, 1957; Ph.D., 1961*

Adjunct Associate Professors

Ronald H. Kaback. *B.A., Haverford, 1958; M.D., Albert Einstein, 1962*
Michael Ian Sherman. *B.Sc., McGill, 1965; Ph.D., State University of New York (Stony Brook), 1969*
David Webb. *B.A., California State, 1966; M.A., 1968; Ph.D., Rutgers, 1971*

Assistant Professors

Jurgen Brosius. *B.A., Johann Wolfgang Goethe (Frankfort), 1974; Ph.D., Max-Planck Institut, 1976*
Frank Costantini. *B.S., Yale, 1974; Ph.D., California Institute of Technology, 1980*
Debra Wolgemuth. *B.A., Gettysburg, 1969; M.A., Vanderbilt, 1971; M.Phil., Columbia, 1975; Ph.D., 1977*

Adjunct Assistant Professor

Mary Rita Greenwood. *B.A., Vassar, 1968; Ph.D., Rockefeller, 1973*

Assistant Professor of Clinical Human Genetics and Development

Marian B. Carlson. *B.A., Radcliffe, 1973; Ph.D., Stanford, 1978*

Associate Research Scientist

Jye-Siung Fang. *B.S., National Taiwan, 1962; Ph.D., Kansas State, 1971*

LECTURER
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RESEARCH ASSOCIATES
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Harlow K. Fischman, Ph.D.
Cassandra L. Smith, Ph.D.

STAFF ASSOCIATES
Kiran Kumar Chada, B.A.
Sheldon I. Feinstein, Ph.D.
Margot Kaelbling, Ph.D.
Anita A. Lustenberger, M.S.

Medicine

Bard Professor of Medicine and Chairman

Robert M. Glickman. *B.A., Amherst, 1960; M.D., Harvard, 1964*

At Presbyterian Hospital

Professors

Qais Al-Awqati (also Physiology). *M.B., Ch.B., Baghdad, 1962*
Arthur Bank (also Human Genetics and Development). *B.A., Columbia, 1956; M.D., Harvard, 1960*
J. Thomas Bigger (also Pharmacology). *B.A., Emory, 1955; M.D., Georgia, 1960*
Vincent P. Butler, Jr. *B.A., St. Peter's, 1949; M.D., Columbia, 1954*
Robert E. Canfield. *B.S., Lehigh, 1952; M.D., Rochester, 1957*

Paul J. Cannon. *B.A., Holy Cross, 1954; M.D., Harvard, 1958*
Leonard Chess. *B.S., Massachusetts Institute of Technology, 1964; M.D., State University of New York (Downstate), 1968*
Rose R. Ellison (in the Cancer Center). *B.A., Barnard, 1943; M.D., Columbia, 1948*
Andrew G. Frantz. *B.A., Harvard, 1951; M.D., Columbia, 1955*
DeWitt S. Goodman (Tilden-Weger-Bieler Professor of Preventive Medicine). *B.A., Harvard, 1951; M.D., 1955*
Robert I. Levy. *B.A., Cornell, 1957; M.D., Yale, 1961*
John N. Loeb. *B.A., Harvard, 1957; M.D., 1961*
Harold C. Neu (also Pharmacology). *B.A., Creighton, 1956; M.D., Johns Hopkins, 1960*
Hymie Nossel. *M.B., Ch.B., Cape Town, 1953; Ph.D., Oxon, 1962*
Elliott F. Osserman (American Cancer Society Professor). *B.A., Columbia, 1945; M.D., 1947*
Benvenuto Pernis (also Microbiology). *M.D., Milan, 1947*
Donald F. Tapley. *B.S., Acadia, 1948; M.D., Chicago, 1952*
Gerard M. Turino. *B.A., Princeton, 1945; M.D., Columbia, 1948*
I. Bernard Weinstein (also Public Health). *B.S., Wisconsin, 1951; M.D., 1955*

Professors of Clinical Medicine

Felix E. Demartini. *B.A., Columbia, 1943; M.D., 1946*
Donald A. Holub. *B.A., Columbia, 1949; M.D., 1952*
Israel Jaffe. *B.S., New York University, 1947; M.D., Columbia, 1950*
Edgar Leifer. *B.S., College of the City of New York, 1937; M.A., Columbia, 1939; Ph.D., 1941; M.D., 1946*
Thomas Q. Morris. *B.A., Notre Dame, 1954; M.D., Columbia, 1958*
Robert Palmer. *B.A., Oberlin, 1953; M.D., Harvard, 1957*
Joseph C. Sweeting. *B.S., Holy Cross, 1951; M.D., Columbia, 1956*
Robert N. Taub. *B.A., Yeshiva, 1957; M.D., Yale, 1961; Ph.D., London, 1969*
Robert T. Whitlock. *B.A., North Carolina, 1950; M.D., 1957*

Professors of Social Medicine

David J. Rothman (Bernard Schoenberg Professor) (Director, Center for the Study of Society and Medicine). *B.A., Columbia, 1958; M.A., Harvard, 1959; Ph.D., 1964*
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Clinical Professors

John R. Edsall. *B.A., Cambridge, 1945; M.B., B.Ch., 1948*
Jay I. Meltzer. *B.A., Princeton, 1949; M.D., Columbia, 1953*
Richard J. Stock. *B.S., Yale, 1944; M.D., Columbia, 1947*
John A. Wood. *B.A., Harvard, 1943; M.D., 1946*

Associate Professors

Leslie Baer. *B.A., Wisconsin, 1959; M.D., Columbia, 1963*
John P. Bilezikian (also Pharmacology). *B.A., Harvard, 1965; M.D., Columbia, 1969*
Peter R. B. Caldwell. *B.A., Dartmouth, 1954; M.D., Harvard, 1958*
Karen L. Kaplan. *B.A., Miami (Ohio), 1963; Ph.D., M.D., Chicago, 1969*
Alan Tall. *M.B., B.S., Sydney (Australia), 1970*

Associate Professors of Clinical Medicine

Ronald E. Drusin. *B.S., Union (Schenectady), 1962; M.D., Columbia, 1966*
Yale Enson. *B.A., Columbia, 1948; M.D., State University of New York (Downstate), 1953*

Dorothy Estes. *B.S., Wheaton (Massachusetts), 1946; M.D., Columbia, 1950*
Glenda J. Garvey. *B.A., Wellesley, 1964; M.D., Columbia, 1969*
Elsa-Grace V. Giardina. *B.A., Bryn Mawr, 1961; M.D., New York Medical College, 1965*
Robert H. Heisenbuttel. *B.A., Thiel, 1959; M.D., Columbia, 1963*
Wylie C. Hembree III (also Obstetrics and Gynecology). *B.A., Vanderbilt, 1960; M.D., Washington (St. Louis), 1964*
Thomas P. Jacobs. *B.A., Amherst, 1964; M.D., Johns Hopkins, 1968*
George W. Melcher, Jr. *B.A., Colorado, 1943; M.D., Columbia, 1946*
Jane H. Morse. *B.A., Smith, 1951; M.D., Columbia, 1955*
James A. Reiffel. *B.A., Duke, 1965; M.D., Columbia, 1969*
Frank R. Smith. *B.A., Dartmouth, 1959; M.D., Columbia, 1962*
Francis M. Weld. *B.A., Harvard, 1961; M.D., Columbia, 1965*

Associate Clinical Professors

Ralph S. Blume. *B.A., Amherst, 1960; M.D., Columbia, 1964*
John O. Burris. *B.S., Wyoming, 1952; M.D., Rochester, 1956*
Michael H. Cohen. *B.A., Johns Hopkins, 1961; M.D., 1965*
Peter A. Gross. *B.A., Amherst, 1960; M.D., Yale, 1964*
Lionel Grossbard. *B.A., Columbia, 1957; M.D., 1961*
George A. Hyman. *B.A., Columbia, 1942; M.D., 1945*
Abbie I. Knowlton. *B.A., Bryn Mawr, 1938; M.D., Columbia, 1942*
William Lovejoy. *B.A., Yale, 1956; M.D., Columbia, 1962*
David J. McConnell. *B.A., Cornell, 1958; M.D., Yale, 1962*
George H. McCormack, Jr. *B.S., Holy Cross, 1945; M.D., Columbia, 1949*
Hans Neuberg. *B.A., Wagner, 1941; M.D., Columbia, 1950*
Michael F. Parry. *B.A., Yale, 1966; M.D., Columbia, 1970*
Eve E. Slater. *B.A., Vassar, 1967; M.D., Columbia, 1971*
Jeffrey A. Stein. *B.A., Harvard, 1960; M.D., 1965*
Earl A. Wheaton, Jr. *B.A., Princeton, 1950; M.D., Columbia, 1954*

Associate Clinical Professor of Social Medicine

Eric Marcus (also Psychiatry). *B.A., Columbia, 1965; M.D., Wisconsin, 1969*

Research Scientist

Gerson Joskowicz. *M.S., Technische, 1973; Ph.D., 1979*

Assistant Professors

Gerald B. Appel. *B.A., Cornell, 1968; M.D., Albert Einstein, 1972*
Gary R. Burke. *B.A., St. Mary's, 1969; M.D., Minnesota, 1973*
Louis D. Carmichael. *B.A., Harvard, 1969; M.D., Albert Einstein, 1976*
Rita A. Charon. *B.A., Bensalem, 1970; M.D., Harvard, 1978*
Herbert Chase, Jr. *B.A., Brown, 1970; M.D., Mt. Sinai, 1974*
Randolph Cole. *M.D., State University of New York (Downstate), 1973*
James Coromilas. *B.S., Columbia, 1969; M.D., McGill, 1975*
Nicholas Davidson. *M.B., B.S., Kings College Hospital Medical School (London), 1974*
Oliver T. Fein. *B.A., Swarthmore, 1962; M.D., Case Western Reserve, 1967*
Steven M. Friedman. *B.A., Princeton, 1968; M.D., Cornell, 1972*
Ira Jay Goldberg. *B.S., Massachusetts Institute of Technology, 1971; M.D., Harvard, 1975*
Steven Grant. *M.D., Mt. Sinai, 1973*
Richard S. Haber. *B.A., Harvard, 1973; M.D., New York University, 1977*
Kung-Ming Jan (also Physiology). *M.B., National Taiwan, 1957; Ph.D., Columbia, 1971*

David S. Leibowitz. *B.A., Columbia, 1972; M.D., 1977*
Arthur M. Magun. *B.A., Haverford, 1972; M.D., Mt. Sinai, 1977*
Alfred I. Neugut. *Ph.D., M.D., Columbia, 1977*
Allen Bryant Nichols. *B.A., Yale, 1961; M.D., Virginia, 1971*
Juan Oliver. *B.A., Bachiller Institute, 1961; M.D., Barcelona (Spain), 1967*
John Owen. *B.ScM., McMaster (Ontario), 1972; M.D., 1974*
Constance Park. *B.A., Radcliffe, 1964; M.S., Harvard, 1967; M.D., Albert Einstein, 1974*
Marjorie Perloff. *B.A., Bennington, 1965; M.D., Case Western Reserve, 1969*
Eric R. Powers. *B.A., Cornell, 1969; M.D., Harvard, 1974*
Alice S. Prince. *B.A., Wellesley, 1971; M.D., Columbia, 1975*
Dennis S. Reison. *B.A., Yale, 1971; M.D., Stanford, 1975*
Stanley H. Rosenbaum (also Anesthesiology). *B.A., Columbia, 1967; M.A., Harvard, 1969; M.D., Cornell, 1973*
Elizabeth Shane. *B.S., Dalhousie (Canada), 1969; M.D., Toronto, 1975*
Ethel S. Siris. *B.A., Radcliffe, 1967; M.D., Columbia, 1971*
David Mark Stern. *B.S., Yale, 1973; M.D., Harvard, 1978*
Sharon Wardlaw. *B.S., Cornell, 1970; M.D., 1975*
Jeffrey Weitz. *M.D., Ottawa, 1976*

Assistant Professor of Anatomy and Cell Biology

Larry D. Witte. *B.S., Iowa State, 1970; Ph.D., 1974*

Assistant Professor of Physiology

Hugh Nellans. *B.A., Lawrence, 1967; Ph.D., Yale, 1971*

Assistant Professor of Social Medicine

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Assistant Professors of Clinical Medicine

Ronald D. Adelman. *B.A., California (Berkeley), 1974; M.D., Albert Einstein, 1978*
Lester W. Blair. *B.A., Columbia, 1970; M.D., 1974*
David K. Blood. *B.A., Amherst, 1962; M.D., Columbia, 1966*
Conrad B. Blum. *B.S., Northwestern, 1969; M.D., 1971*
Peter J. Buchin. *B.A., Williams, 1970; M.D., Yale, 1974*
David J. Cohen. *B.A., Michigan, 1970; M.D., New York University, 1972*
Robert H. DeBellis. *B.S., Queens (New York), 1951; M.D., Columbia, 1958*
Kenneth C. Fine. *M.D., Catholic (Belgium), 1970*
Jerry Gliklich. *B.A., Columbia, 1969; M.D., 1975*
Mark J. Goldberger. *B.A., Johns Hopkins, 1969; M.D., Columbia, 1973*
Peter Green. *M.B., B.S., Sydney, 1970*
Victoria E. Guy. *B.A., Duke, 1968; M.D., Pittsburgh, 1976*
Lynne L. Johnson. *B.A., Wellesley, 1965; M.D., Columbia, 1969*
Rima Gail Kopelman. *B.A., Barnard, 1971; M.D., Columbia, 1977*
Cheryl Kunis. *M.D., Albert Einstein, 1975*
Rafael A. Lantigua. *M.D., Autonomous (Santo Domingo), 1972*
Oscar Lebwohl. *B.A., Dartmouth, 1968; M.D., Harvard, 1972*
Benjamin H. Lewis. *B.A., California (Berkeley), 1973; M.D., California (San Francisco), 1977*
Frank S. Livelli. *B.A., Columbia, 1972; M.D., Harvard, 1976*
Aaron Manson. *B.A., Pennsylvania, 1972; M.D., 1976*
David M. Margulies. *B.A., Amherst, 1973; M.D., Harvard, 1977*
Robert McConnell. *B.A., Hamilton, 1969; M.D., Columbia, 1973*

J. Gregory Mears. *B.S., Trinity (Connecticut), 1969; M.D., Columbia, 1973*
Robin O. Motz. *B.A., Columbia, 1959; Ph.D., 1965; M.D., 1975*
Marcia Naveh. *M.S., Tulane, 1972; M.D., Albert Einstein, 1977*
Carmen Ortiz-Neu. *B.A., Wellesley, 1959; M.D., Columbia, 1963*
Martin W. Oster. *B.A., Columbia, 1967; M.D., 1971*
Kenneth M. Prager. *B.A., Columbia, 1964; M.D., Harvard, 1968*
Marshall Primack. *B.A., Louisville, 1961; M.D., Johns Hopkins, 1965*
Barrie Lynn Raik. *B.A., Harpur, 1967; M.D., New York University, 1977*
Frederick G. Rapoport. *B.A., Columbia, 1970; M.D., 1974*
John L. Roglieri. *B.A., B.S., Lehigh, 1960; M.D., Harvard, 1966*
Mario Romagnoli. *B.S., Fordham, 1972; M.D., Columbia, 1976*
Harvey A. Schneier. *B.A., Columbia, 1963; M.D., 1967*
Peter E. Schrag. *B.A., Harvard, 1960; M.D., 1964*
Lewis P. Schreider. *B.A., Queens (New York), 1974; M.D., State University of New York (Downstate), 1978*
Allan Schwartz. *B.S., City College (New York), 1967; M.S., Harvard, 1968; M.D., Columbia, 1974*
Brian Scully. *B.A., Dublin, 1969; M.B., B.Ch., 1971*
Alan H. Seplowitz. *B.A., Columbia, 1968; M.D., 1972*
William H. Sherman. *B.S., Pennsylvania State, 1967; M.D., Jefferson, 1969*
Richard V. Sims III. *B.A., Amherst, 1970; M.D., Harvard, 1974*
Marjorie Slankard-Chahinian. *B.A., Missouri, 1967; M.D., 1971*
Leonard Stern. *B.A., Brooklyn, 1972; M.D., New York Medical College, 1975*
Mark Stoopler. *B.S., Tulane, 1971; M.D., Cornell, 1974*
Joseph Tenenbaum. *B.A., Brandeis, 1968; M.D., Harvard, 1974*
Byron Thomashow. *B.A., Columbia, 1970; M.D., 1974*
Jack B. Weissman. *B.A., New York University, 1966; M.D., Harvard, 1970*
Gail S. Williams. *B.A., Wellesley, 1964; M.D., Columbia, 1968*
Chun Keung Yip. *B.S., St. Francis (New York), 1972; MD., Albert Einstein, 1976*

Assistant Professor of Clinical Social Work

Dena Fisher. *B.A., Queens (New York), 1965; M.S.W., New York University, 1968*

Assistant Clinical Professors

Alfred Becker. *M.D., Albert Einstein, 1962*
Richard B. Duane, Jr. *B.A., Princeton, 1940; M.D., Columbia, 1943*
Juan G. Edreira. *M.D., Havana, 1951*
Daniel L. Larson. *M.D., Columbia, 1946*
Arnold Lisio. *B.S., Rochester, 1956; M.D., 1961*
Daniel L. Macken. *B.A., Holy Cross, 1955; M.D., Boston, 1960*
John Postley. *B.A., Yale, 1964; M.D., Columbia, 1968*
Nicholas Rango. *B.S., St. Louis, 1966; M.D., Northwestern, 1970*
Arthur I. Snyder. *B.A., Columbia, 1946; M.D., 1950*
Cornelius J. Tyson. *B.A., Princeton, 1939; M.D., Columbia, 1943*

Associate Research Scientists

Steven Birken. *Ph.D., St. John's (New York), 1972*
William S. Blaner. *B.S., Maryland, 1972; M.S., Tennessee, 1975; Ph.D., 1979*
Bonnie A. Bray. *B.S., Georgia, 1950; Ph.D., Columbia, 1963*
Joseph Cornicelli. *B.S., Cincinnati, 1973; M.S., 1975; Ph.D., 1978*
Paul H. Ehrlich. *B.S., State University of New York (Stony Brook), 1971; Ph.D., Massachusetts Institute of Technology, 1976*
Mary Ann Gawinowicz. *B.A., Douglass, 1974; Ph.D., Columbia, 1978*

Chung Yuan Liu. *B.S., Taiwan Provincial Chung Hsing, 1958; M.S., North Dakota, 1968; Ph.D., Illinois Institute of Technology, 1974*
Mohamed M. Osman. *D.V.M., Cairo, 1967*
Ildiko Radichevich. *M.A., Ukrainian Technological, 1948; Ph.D., Columbia, 1958*
Steven L. Roffman. *B.A., Queens (New York), 1965; M.S., New York University, 1968; Ph.D., 1973*
Robert R. Sciacca. *B.S., Columbia, 1971; M.S., 1974*
Dianne R. Soprano. *B.S., Newton College of the Sacred Heart, 1975; Ph.D., Rutgers, 1980*
Gabriel Tsuboyamo. *M.D., Université Nacional Mayor de San Marcos, 1976*

SPECIAL LECTURERS

Henry Aranow, Jr., M.D.
Hylan A. Bickerman, M.D.
Andre F. Cournand, M.D.
Albert R. Lamb, Jr., M.D.
Hamilton Southworth, M.D.
Alfred Steiner, M.D.

LECTURERS

Nicholas P. Christy, M.D.
Edward E. Fischel, M.D.
William M. Manger, M.D.
John H. McClement, M.D.
Henry M. Thomas III, M.D.
Melvin B. Weiss, M.D.

ASSOCIATES IN CLINICAL MEDICINE

Marcia B. Bull, M.D.
Elias M. Kaimakliotis, M.D.
Robert Lewy, M.D.
Alan L. Saroff, M.D.

ASSOCIATE IN SOCIAL MEDICINE

Arthur L. Caplan, Ph.D.

INSTRUCTOR

Renaud Beauwens, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Kenneth S. Bannerman, M.D.
Howard J. Barnum, M.D.
Kapil N. Bhalla, M.B., Ch.B.
David N. Burns, M.D.
Jorge Cortes-Quinones, M.D.
Ann P. D'Adamo, M.D.
Arthur R. DeSimone, M.D.
Kevin J. Ferrick, M.D.
Michael Goldman, M.D.
Susan N. Greenberg, M.D.
Lonnie B. Hanauer, M.D.
Ralph Herz, Jr., M.D.
Alexander A. Hindenberg, M.D.
Alan I. Kalischer, M.D.
Thomas R. Kleyman, M.D.

INSTRUCTORS (*continued*)

Richard Kornbluth, M.D.
Pier Mancusi-Ungaro, M.D.
Zandra Rios-Rivera, M.D.
Jane S. Sillman, M.D.
David B. Sutter, M.D.
Natalie J. Warner, M.D.
Christine Weart, M.D.

ASSISTANTS IN CLINICAL MEDICINE

Helen-Ann Garcia, M.D.
Joseph Heller, M.D.
Howard M. Kipen, M.D.
Gregory Klomp, M.D.
Mato L. Marinovich, M.D.
John E. McWhorter, M.D.
Milovan T. Rakic, M.D.
Thomas J. Rakowski, M.D.
John M. Rodgers, M.D.
Richard H. Runser, M.D.
Adele Tedeschi, M.D.

SENIOR STAFF ASSOCIATES

Michael Drillings, M.S.
Joan Sobel, M.S.

RESEARCH ASSOCIATES

Gordon A. Campbell, Ph.D.
Joseph Mario Cerreta, Ph.D.

STAFF ASSOCIATES

Bernadette Adams, B.S.
Alice S. Appel, Ph.D.
John Thomas Barnard, M.D.
Carlos Barreda, B.S.
Doris Tse Eng, B.A.
Sylvia H. Ford, M.A.
Donald L. Gammon, B.S.
Kuniyo Kato, D.V.M.
Alexander Krichevsky, D.V.M.
Kallioppe S. LaGamma, B.S.
Gilbert Le Cren, B.A.
Westley H. Reeves, M.D.
Henri H. Roche, M.D.
Robert E. Sundeen
Dominique A. Weber, L.èsSc.

At Mary Imogene Bassett Hospital

Associate Professors of Clinical Medicine

John S. Davis. *B.A., Hamilton, 1952; M.D., Harvard, 1956*
Walter Franck. *B.A., Yale, 1960; M.D., Columbia, 1964*
Gary S. Hoffman. *B.A., Harpur, 1964; M.S., Howard, 1967; M.D., Medical College of Virginia, 1971*
Herbert J. Marx. *B.E.E., Rensselaer Polytechnic Institute, 1954; M.D., Columbia, 1960*

Assistant Professors of Clinical Medicine

Peter L. Arquin. *M.D., Pennsylvania State, 1972*
Lewis L. Hamilton. *B.S., Yale, 1960; M.D., Columbia, 1964*
Emery C. Herman. *B.A., Emory, 1949; M.D., Johns Hopkins, 1953*
Richard J. Horner. *B.A., Dartmouth, 1966; M.D., Harvard, 1969*
Peter J. Howard. *B.A., Dartmouth, 1971; M.D., C.M., McGill, 1975*
Alan J. Kozak. *B.A., Rochester, 1965; M.D., 1969*
Antionette Kuzminski. *B.A., Smith, 1967; M.A., Rochester, 1970; M.D., Hawaii, 1977*
Don V. Lewis. *B.A., North Carolina, 1967; M.D., 1971*
John J. May. *B.S., Notre Dame, 1969; M.D., Case Western Reserve, 1973*
Nancy Beth Merrell. *B.S., Wayne State, 1970; Ph.D., 1972; M.D., 1976*
Thomas M. Miller. *B.A., Oberlin, 1973; M.D., North Carolina, 1977*
William H. Mook. *B.A., Wesleyan, 1941; M.D., Columbia, 1944*
David S. Pratt. *B.A., New Hampshire, 1967; M.D., Tufts, 1971*
Donald A. Raddatz. *B.A., Holy Cross, 1971; M.D., Minnesota, 1975*
Allan G. Ramsay. *B.A., Western Ontario, 1974; M.D., 1948*
William H. Ramsay. *B.A., Dartmouth, 1967; M.D., Columbia, 1970*
Richard E. Reese. *B.A., Dartmouth, 1965; M.D., Harvard, 1969*
Dennis A. Savoie. *B.A., Providence, 1967; M.D., Vermont, 1971*
Michael S. Schwartzman. *B.A., Johns Hopkins, 1973; M.D., Medical College of Virginia, 1978*
Robert S. Sioussat. *B.A., Wesleyan, 1946; M.D., Columbia, 1951*
William Streck. *B.S., Oklahoma State, 1968; M.D., Missouri, 1973*
Davis S. Svahn. *B.S., Massachusetts Institute of Technology, 1960; M.D., Columbia, 1965*
Steven E. Szebenyi. *B.A., Johns Hopkins, 1974; M.D., 1978*
David W. Vaules. *B.A., Dartmouth, 1960; B.M.S., 1961; M.D., Rochester, 1963*
Gary Weaver. *Goshen, 1964; M.D., Kansas, 1968*

Assistant Clinical Professor

Donald O. Pollock. *B.A., Hamilton, 1951; M.D., Harvard, 1955*

INSTRUCTORS IN CLINICAL MEDICINE

Maria Mendel, M.D.
Kenneth Wilkins, M.D.

At Harlem Hospital

Professors

John Lindenbaum. *B.A., Cornell, 1954; M.D., Harvard, 1959*
Gerald E. Thomson (Samuel Lambert Professor). *B.S., Queens (New York), 1955; M.D., Howard, 1959*

Clinical Professors

Harold S. Ballard. *B.A., California (Los Angeles), 1948; M.D., Meharry, 1952*
Kenneth Sterling. *B.A., Harvard, 1940; M.D., Johns Hopkins, 1943*

Associate Professors of Clinical Medicine

David Jocelyn Clain. *M.B., Ch.B., Cape Town, 1959; M.D., 1968*
Charles P. Felton. *B.Sc., Xavier, 1949; M.D., Geneva, 1956*
Clayton L. Natta. *B.A., McMaster (Ontario), 1957; M.D., Toronto, 1961*

Associate Clinical Professors

George C. Branche. *B.A., Bowdoin, 1944; M.D., Boston, 1948*
John B. Cromie. *M.D., Belfast (Northern Ireland), 1949*
William R. Cunnick, Jr. *B.A., Princeton, 1947; M.D., Columbia, 1951*
Jeanne A. Smith. *B.A., Sarah Lawrence, 1953; M.D., New York University, 1957*
Charles M. Yergan. *B.S., Columbia, 1944; M.D., 1947*

Assistant Professors

Ann M. Briscoe. *M.A., Vassar, 1945; Ph.D., Yale, 1949*
Thomas J. Garrett. *M.D., Queens (Ontario), 1971*

Assistant Professors of Clinical Medicine

Jay Brown. *B.A., Rutgers, 1964; M.D., New York University, 1968*
Jen-Tse Cheng. *M.D., National Taiwan, 1961*
Peter C. T. Dickinson. *B.S., McGill, 1958; M.D., 1962*
Jay Franklin Dobkin. *B.A., Columbia, 1968; M.D., Harvard, 1972*
Donald A. Feinfeld. *B.A., Rochester, 1965; M.D., Columbia, 1969*
Kenneth J. Herwig. *B.A., Syracuse, 1967; M.D., Pennsylvania State, 1971*
Wanda Devora Huff. *B.A., Cornell, 1969; M.D., Yale, 1973*
Hazeline Nurse. *B.A., Hunter, 1965; M.D., Medical College of Pennsylvania, 1969*
David G. Savage. *B.A., Wesleyan, 1970; M.D., Columbia, 1974*

Assistant Clinical Professors

James T. Chien. *M.D., Yale-in-China Medical College, 1943*
Marvin C. Cooper. *B.S., Queens (New York), 1960; M.D., St. Louis, 1965*
Milena L. Lewis. *B.A., Bryn Mawr, 1950; M.D., Columbia, 1954*
Bruce David Logan. *B.A., Colby, 1967; M.D., Columbia, 1972*
Richard R. Prouty. *M.D., Johns Hopkins, 1948*

SPECIAL LECTURER

Cecil G. Marquez, M.D.

ASSISTANT IN CLINICAL MEDICINE

Douglas Miller, M.D.

ASSOCIATES IN CLINICAL MEDICINE

John C. DiJohn, M.D.
Pearl D. Foster, M.D.
Paul Killian, M.D.
Anthony J. Marano, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Viola Anderson, M.D.
Alfred Robert Ashford, M.D.
Jeffrey N. Bradshaw, M.D.
Valentine J. Burroughs, M.D.
Bennie W. Chiles, M.D.
Carl A. Garnier, M.D.
Major Geer, M.D.
Michael H. Gordon, M.D.
Ross T. Hamilton, M.D.
Barbara J. Harmon, M.D.
James H. Hubert, M.D.
Thomas J. Mattimore, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

Shahab Momtazi, M.D.
Clarence S. Murray, M.D.
Luigi M. F. Negri, M.D.
Christopher J. Nickerson, M.D.
Ruth C. Onukwue, M.D.
Wilmer J. Petite, Jr., M.D.
Velvie Ann Progue, M.D.
Jon Rothenberg, M.D.
William J. Schwartz, M.D.
Mark I. Siegel, M.D.
Earl J. Vandenbush, M.D.
Michael D. Williams, M.D.

At Helen Hayes Hospital

Professor of Clinical Medicine

Robert Lindsay. *M.P.C.B., Glasgow, 1968; Ph.D., 1969*

At Morristown Memorial Hospital

Professor of Clinical Medicine

Albert S. Klainer. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*

Assistant Clinical Professors

Oscar Kruesi. *B.S., Union (Schenectady), 1947; M.D., Cornell, 1951*
Robert V. McCormick. *B.S., Harvard, 1944; M.D., 1946*
Joseph J. Ryan. *B.S., Notre Dame, 1965; M.D., State University of New York (Downstate) 1970*

INSTRUCTORS IN CLINICAL MEDICINE
Kenneth Adler, M.D.
Mark T. Atkins, M.D.
Hillel Ben-Asher, M.D.
Donald P. Burt, M.D.
Joel E. Cannila, M.D.
Alan Chanin, M.D.
Bernard Davidoff, M.D.
John J. Delaney, M.D.
Barry Efros, M.D.
Joel R. L. Ehrenkranz, M.D.
Joseph F. Fennelly, M.D.
Arthur Fisch, M.D.
Arthur Geller, M.D.
Lee W. Geller, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)
Gary Gerstein, M.D.
Stephen Guss, M.D.
Arthur Hoaglund, M.D.
Thomas R. Holland, M.D.
Ibrahim Housri, M.D.
Stephen Krasnica, M.D.
David S. Lerman, M.D.
Stelio Mangiola, M.D.
Sudhir H. Mehta, M.D.
Earl Nielson, M.D.
Celso S. Puno, M.D.
Martin L. Reich, M.D.
John E. Rossman, M.D.
Stephen W. Rozan, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)
John Salaki, M.D.
Michael A. Samach, M.D.
Felix Schletter, M.D.
Zalman R. Schrader, M.D.
Dean C. Shore, M.D.
Leo H. Siegel, M.D.
Lawrence Stein, M.D.
James R. Sterrett, M.D.
Jerrold M. Stock, M.D.
John G. Valeri, M.D.
Gary Weine, M.D.
David Widman, M.D.
Barry Zitomer, M.D.

At Overlook Hospital

Clinical Professors

Michael Bernstein. *M.D., New York Medical College, 1953*
William F. Minogue. *B.S., Seton Hall, 1951; M.S., New York Medical College, 1960*

Associate Professor of Clinical Medicine

John J. Gregory. *B.S., Worcester Polytechnic Institute, 1953; M.D., Albany, 1961*

Associate Clinical Professor (Family Practice)

Donald F. Kent. *B.A., Pennsylvania, 1935; M.D., 1940*

Assistant Clinical Professors

Joel L. Duberstein. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Stephen J. Fischl. *B.A., Seton Hall, 1963; M.D., New Jersey College of Medicine and Dentistry, 1967*

Robert A. Fuhrman. *B.A., Clark, 1962; M.D., Chicago, 1966*
Peter L. Goodluck. *M.B., B.S., Medical College (Bombay), 1958*
Mary T. Herald. *B.A., New Rochelle, 1965; M.D., New Jersey College of Medicine and Dentistry, 1969*
E. Thomas Holland. *B.A., Wesleyan, 1971; M.D., Chicago, 1975*
Thomas V. Inglesby. *B.S., Mt. St. Mary's, 1959; M.D., Maryland, 1963*
William A. Tansey III. *B.A., Yale, 1966; M.D., Columbia, 1970*
William N. Toth. *B.S., Georgetown, 1956; M.D., Hahnemann, 1960*
William E. Wagner, Jr. *B.A., Princeton, 1945; M.D., Columbia, 1950*
Donald H. Wernsing. *M.D., Hahnemann, 1975*

ASSOCIATES IN CLINICAL MEDICINE

Samuel M. Gray, M.D.
Richard M. Weinberg, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Kevin E. Bell, M.D.
Joseph A. Belladonna, M.D.
Fred G. Bromberg, M.D.
Donald J. Brock, M.D.
H. Oliver Brown, Jr., M.D.
Kopel Burk, M.D.
Andrew Coronato, Jr., M.D.
H. William Diefendorf, M.D.
Rosina B. Dixon, M.D.
Charles E. Dooley, Jr., M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

John T. Farry, M.D.
Robert B. Francis, M.D.
Trina Frankel, M.D.
Harvey Gerhard, M.D.
A. Ralph Kristeller, M.D.
Ines Linzmayer, M.D.
Joseph G. Loeffler, M.D.
Robert P. Margie, M.D.
Lawrence J. Nastro, M.D.
Sanford M. Reiss, M.D.
Melvin Rubinstein, M.D.
R. Gregory Sachs, M.D.
Robert R. Springer, M.D.
Elliott M. Stein, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

Michael Suhl, M.D.
Michael J. Tighe, M.D.
Burton Tucker, M.D.
David Allen Worth, M.D.

ASSISTANTS IN CLINICAL MEDICINE

Joseph T. Faraldo, M.D.
John R. Hanagan, M.D.
Eugene R. Kelley, M.D.
Michael B. Kerner, M.D.
David P. Miller, M.D.
Robert D. Slama, M.D.
Steven J. Stanzione, M.D.

At St. Luke's–Roosevelt Hospital Center

Professors

John F. Bertles. *B.S., Yale, 1945; M.D., Harvard, 1952*
Robert B. Case. *B.A., Ohio Wesleyan, 1953; M.D., Columbia, 1958*
Peter R. Holt. *B.Sc., Tolington, 1949; M.B., B.S., London, 1954*
Gerald B. Phillips. *B.A., Princeton, 1946; M.D., Harvard, 1948*
William Rosner. *B.A., Wisconsin, 1954; M.D., Albert Einstein, 1961*
Theodore Van Itallie. *B.S., Harvard, 1941; M.D., Columbia, 1945*
Harvey J. Weiss. *B.A., Harvard, 1951; M.D., 1955*

Professors of Clinical Medicine

A. L. Loomis Bell. *B.S., Wesleyan, 1944; M.D., Harvard, 1947*
William S. Clark. *B.S., Dayton, 1934; M.D., St. Louis, 1938*
Stanley Cortell. *B.S., Massachusetts Institute of Technology, 1957; M.D., Tufts, 1961*
Michael H. Grieco. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1957*
Harvey G. Kemp. *B.A., Oklahoma, 1955; M.D., Johns Hopkins, 1959*
Richard N. Pierson, Jr. *B.A., Princeton, 1961; M.D., Columbia, 1966*
Miles J. Schwartz. *B.S., Queens (New York), 1947; M.D., New York University, 1961*

Clinical Professors

Albert W. Grokoest. *B.S., Hamilton, 1940; M.D., Columbia, 1943*
Philip H. Henneman. *B.A., Harvard, 1943; M.D., 1946*
Henry C. Schaffeld. *B.A., Columbia, 1938; M.D., 1941*

Associate Professor

F. Xavier Pi-Sunyer. *B.A., Oberlin, 1955; M.D., Columbia, 1959*

Associate Professors of Clinical Medicine

C. Redington Barrett. *B.A., Yale, 1955; M.D., Columbia, 1959*
Robert S. Bernstein. *B.A., Columbia, 1961; M.D., Harvard, 1965*
Edward M. Dwyer. *B.A., Columbia, 1957; M.D., 1961*
Marianne J. Legato. *B.A., Manhattanville, 1956; M.D., New York University, 1962*

Associate Clinical Professors

Richard P. Ames. *B.A., Williams, 1954; M.D., Columbia, 1958*
Albert Attia. *B.A., Cornell, 1955; M.D., 1958*
Norman A. Cagin. *B.S., Rutgers, 1963; M.D., New York Medical College, 1967*
George Dermksian. *M.A., Columbia, 1950; M.D., Cornell, 1954*
James B. Gabriel. *B.A., Brown, 1945; M.D., Harvard, 1949*
Jonas M. Goldstone. *B.S., Harvard, 1951; M.D., 1955*
Saul Kaplan. *B.S., Columbia, 1954; M.D., Tennessee, 1959*
Arthur Karanas. *B.A., New York University, 1954; M.D., State University of New York (Downstate), 1958*
Arthur J. Lennon. *B.A., Fordham, 1956; M.D., Columbia, 1960*
Richard McCray. *B.A., Wesleyan, 1954; B.D., Yale, 1957; M.D., Columbia, 1962*
Myron C. Patterson. *B.A., Columbia, 1939; M.D., 1943*
Bruce H. Pinkernell. *B.A., Johns Hopkins, 1960; M.D., 1964*
Norton S. Rosensweig. *B.A., Princeton, 1957; M.D., New York University, 1961*
Lawrence Scharer. *B.A., Columbia, 1954; M.D., 1958*
Gerald Weintraub. *B.A., New York University, 1950; M.D., 1954*
Myron C. Wright. *B.A., Dartmouth, 1937; M.D., New York University, 1940*
Herman Ziffer. *B.A., Brooklyn, 1949; M.D., Chicago, 1953*

Research Scientists

Beatrice Fairchild. *B.A., Hunter, 1942; M.A., Bryn Mawr, 1943; Ph.D., 1948*
Henry Koopmans. *B.A., Harvard, 1966; Ph.D., California (San Diego), 1972*

Assistant Professors

Judith S. Hochman. *M.A., Harvard, 1974; M.D., 1977*
Donald Philip Kotler. *M.D., Albert Einstein, 1973*
Michelle P. Warren (also Obstetrics and Gynecology). *B.A., Mt. Holyoke, 1961; M.D., Cornell, 1965*

Assistant Professors of Clinical Medicine

Judith Axelrod. *B.A., Wellesley, 1963; M.D., Cornell, 1967*
Bertha Ann Bauer. *B.A., Smith, 1973; M.D., Columbia, 1977*
Norma M. T. W. Braun. *B.A., Pennsylvania, 1959; M.D., Columbia, 1963*
Jeffrey M. Brensilver. *M.D., Columbia, 1971*
Richard Gunnar Carlson. *B.S., Trinity (Connecticut), 1966; M.D., Columbia, 1970*
Edward W. Colt. *M.D., University College Hospital (London), 1962*
Ann Geller. *M.A., Oxford, 1957; M.D., University College Hospital (London), 1960*
Gregg Armin Husk. *B.S., Chicago, 1970; M.D., 1975*
Michael Lange. *M.D., Toronto, 1968*

Gertrude Scott Lefavour. *B.A., Goucher, 1965; M.D., Medical College of Pennsylvania, 1970*
Jonathan A. Lorch. *B.A., Wisconsin, 1968; M.D., Tulane, 1972*
Allen Mogtader. *B.A., Columbia, 1966; M.D., State University of New York (Downstate), 1970*
Jean W. Saleh. *B.A., St. Joseph (Beirut), 1957; M.D., Faculté Francaise de Medicin, 1964*
Seiichi Shimomura. *M.D., Okayama (Japan), 1945*

Assistant Clinical Professors

Charles G. Adsit, Jr. *B.A., Yale, 1938; M.D., Columbia, 1942*
Kenneth A. Altman. *B.A., Cornell, 1950; M.D., Columbia, 1954*
Wendy Aronson. *B.A., Vassar, 1965; M.D., New York University, 1968*
William J. Athos. *B.A., Columbia, 1942; M.D., State University of New York (Downstate), 1956*
Harvey Benovitz. *B.A., Washington and Jefferson, 1958; M.D., Albert Einstein, 1962*
Robert Bernot. *B.A., Columbia, 1955; M.D., Buffalo, 1960*
Carlton Boxhill. *B.A., Columbia, 1964; M.D., 1968*
Earl B. Brown. *B.S., Emory, 1938; M.D., 1942*
Richard Collens. *B.S., Massachusetts Institute of Technology, 1959; M.D., New York Medical College, 1966*
Donald P. Dallas. *B.A., Columbia, 1950; M.D., 1954*
Robert K. Emy. *B.A., New York University, 1952; M.D., Medical College of Virginia, 1957*
James A. Feltman. *B.A., Columbia, 1941; M.D., 1944*
Richard P. Fried. *B.A., Brown, 1964; M.D., Columbia, 1968*
Oscar Garfein. *B.A., Columbia, 1961; M.D., 1965*
Zane Gaut. *B.S., Birmingham Southern, 1950; M.D., Tulane, 1954*
Richard Geltman. *B.A., Rutgers, 1967; M.D., Albert Einstein, 1971*
Henry M. Greenberg. *B.A., Pennsylvania, 1961; M.D., Tufts, 1968*
Joseph A. Grossman. *B.S., College of the City of New York, 1953; M.D., State University of New York (Downstate), 1957*
Katherine A. Hawkins. *B.A., Manhattanville, 1969; M.D., Columbia, 1973*
Julian B. Hyman. *B.A., Columbia, 1945; M.D., Albany Medical College, 1947*
John H. Keating. *B.A., Columbia, 1941; M.D., 1943*
Annetta J. Kimball. *B.A., Mt. Holyoke, 1964; M.D., Boston, 1968*
Ronald Kraft. *B.S., Michigan, 1966; M.D., Cincinnati, 1970*
Edith Joan Langner. *B.A., Michigan, 1965; M.D., New York University, 1969*
Sharon Lewin. *M.D., Toronto, 1975*
Robert P. Lombardo. *B.S., Notre Dame, 1966; M.D., New York Medical College, 1970*
Athanasius Mallios. *B.A., Columbia, 1968; M.D., State University of New York (Upstate), 1973*
David K. Meriney. *B.A., Duke, 1956; M.D., 1960*
Lawson A. Moyer III. *B.A., Virginia, 1968; M.D., 1972*
William M. Nicholas. *B.A., Williams, 1950; M.D., State University of New York (Syracuse), 1954*
Paul Martin Nonkin. *B.A., New York University, 1950; M.D., New York Medical College, 1954*
John J. Olichney. *B.S., Rutgers, 1965; M.D., Albany, 1969*
Anthony J. Pepe. *B.S., St. John's (New York), 1966; M.D., Columbia, 1970*
Edward H. Reisner. *B.A., Columbia, 1935; M.D., 1939*
Robert B. Roven. *B.A., Columbia, 1953; M.D., 1957*
Eugene Santilli. *B.S., College of the City of New York, 1958; M.D., Medical University of Bologna, 1964*
Morton Schwimmer. *B.A., Lafayette (Pennsylvania), 1948; M.D., Jefferson, 1951*
Kenneth N. Weinstein. *B.A., Vermont, 1955; M.D., New York University, 1959*

Associate Research Scientists

Mukul Kumar Basu. *B.S., Calcutta, 1961; M.S., Kalyani, 1963; Ph.D., Jadavpur, 1969*
Thalia Boussios. *B.S., Columbia, 1965; M.S., New York University, 1977; Ph.D., 1978*
M. Saeed Khan. *M.S., Brown, 1964; Ph.D., Imperial College of Science and Technology (London), 1966*
Bruce R. Lages. *B.S., Stevens Institute of Technology, 1964; M.S., 1967; Ph.D., 1972*
Mohan Muthireval Reddy. *B.Sc., Agricultural College (India), 1963; M.Sc., Indian Agricultural Research Institute, 1966; Ph.D., Chicago, 1969*

LECTURERS

David Schwimmer, M.D.
Carol Wilkinson, M.D.

ASSOCIATES IN CLINICAL MEDICINE

Jose L. Barbosa-Saldivar, M.D.
Michael Borecky, M.D.
John Thomas Cappadona, M.D.
David Stewart Carroll, M.D.
Paul Chrzanowski, M.D.
Albert Cohen, M.D.
John Cornwall, M.D.
James Ducey, M.D.
Jeanne Fastook, M.D.
Donald R. Fishman, M.D.
Martin Jay Frankel, M.D.
Eugene Freundlich, M.D.
Francis G. Geer, M.D.
Maurice F. Goodbody, M.D.
Carolyn E. Goodstein, M.D.
Barry E. Goozner, M.D.
Antoine C. Harovas, M.D.
William S. Hopewell, M.D.
Michael Robinson Irwin, M.D.
Herbert Ivan Jernow, M.D.
Thomas C. Moore III, M.D.
Thomas M. Nall, M.D.
Norman C. Peeler, M.D.
Mark V. Sherrid, M.D.

ASSOCIATES IN CLINICAL MEDICINE (*continued*)

Nicholas Steiner, M.D.
Thomas Tamlyn, M.D.

INSTRUCTORS IN CLINICAL MEDICINE

Eric Andreae, M.D.
Vernon G. Baker, M.D.
Lestrino C. Baquiran, M.D.
Michael S. Baum, M.D.
Cecil B. Broderick, M.D.
Daniel L. Brook, M.D.
John Cohn, M.D.
Hugh C. Davidson, M.D.
Luziano Del Guzzo, M.D.
Margaret Dessau, M.D.
William E. Edelheit, M.D.
Jerome Paul Ehrlich, M.D.
Loellen Kay English, M.D.
Jason Faller, M.D.
James W. Fingerhut, M.D.
Stuart W. Forster, M.D.
Dennis Gage, M.D.
Dulaney Glen, M.D.
Andrew Milton Goldmann, M.D.
Karl R. Hoffmann, M.D.
Peter L. Hofmann, M.D.
Wade A. Johnson, M.D.
Mitchell Kahn, M.D.
Martin Philip Kasofsky, M.D.

INSTRUCTORS IN CLINICAL MEDICINE (*continued*)

Andrew C. Leifer, M.D.
Madeline Zetee Luke, M.D.
Robert Allen Meyers, M.D.
Alfred Miller, M.D.
Lazare Novack, M.D.
Mary Margaret O'Sullivan, M.D.
Martin Saul Pine, M.D.
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Howard N. Schwartz, M.D.
Michael S. Siegal, M.D.
Thomas V. Tupper, M.D.
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ASSISTANTS IN CLINICAL MEDICINE

Dennis George Huskins, M.D.
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Harry Grundfest, Ph.D.
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Jeffrey Joel Rosen, Ph.D.

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James F. Culleton, M.D.
Joyce Ilson, M.D.
Stanley Lesse, M.D.
May Ann Whelan, M.D.
Bruce Roseman, M.D.
Robert Wolf, M.D.

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Louise Donahoe, M.D.
Damon N. Fellman, M.D.
Michael L. Gruber, M.D.
Dale Joseph Lange, M.D.
Gerald J. Smallberg, M.D.

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Assistant Clinical Professor

Bertel Bruun. *M.D., Copenhagen, 1964*

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Obstetrics and Gynecology

Professor and Acting Chairman

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Associate Professor

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Associate Professor of Physiology

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Harold E. Fox (also Pediatrics). *M.Sc., Rochester and Oxford, 1972; M.D., Rochester, 1972*
Wylie C. Hembree III (also Medicine). *B.A., Vanderbilt, 1960; M.D., Washington (St. Louis), 1964*

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John L. Lewis, Jr., M.D.
Kevin D. Reilly, M.D.
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Ophthalmology

Edward S. Harkness Professor and Chairman

Charles J. Campbell. *M.D., George Washington, 1948; B.S., Muskingum, 1949; M.S., Rochester, 1951; Med.Sc.D., Columbia, 1957*

At Presbyterian Hospital

Professors

Endre A. Balazs (Malcolm P. Aldrich Professor). *M.D., Budapest, 1942*
Peter Gouras. *B.A., Johns Hopkins, 1951; M.D., 1955*

Professor of Ocular Physiology

Laszlo Z. Bito. *B.A., Bard, 1959; Ph.D., Columbia, 1963*

Professor of Ophthalmic Biochemistry

Abraham Spector. *Ph.D., New York University, 1957*

Professor of Microbiology

Wladyslaw Manski. *M.Phil., Warsaw, 1939; D.Sc., Wroclaw (Poland), 1951*

Professor of Clinical Ophthalmology

Harold F. Spalter. *B.A., Brown, 1951; M.D., Columbia, 1955*

Clinical Professor

Anthony Donn. *B.S., Yale, 1947; M.D., Columbia, 1952*

Associate Professor of Physiology

Jorge Fischbarg. *M.D., Buenos Aires, 1962; Ph.D., Chicago, 1971*

Associate Professors of Clinical Ophthalmology

Myles M. Behrens. *B.A., Yale, 1958; M.D., Columbia, 1962*
Richard W. Darrell. *B.A., Harvard, 1955; M.D., 1959; Sc.D., Columbia, 1965*
Andrew deRoetth, Jr. *B.S., Northwestern, 1943; M.D., 1946*
R. Linsy Farris. *M.D., Duke, 1961*
Max Forbes. *B.A., Cornell, 1951; M.D., Chicago, 1957*
Francis A. L'Esperance, Jr. *B.A., Dartmouth, 1952; M.D., Harvard, 1956*
Sally Moore (Orthoptics). *B.S., Delaware, 1952*
Balachandran D. Srinivasan. *Ph.D., Columbia, 1964; M.D., 1967*
Stephen Trokel. *B.A., Cornell, 1954; M.S., Rochester, 1956; M.D., 1959; Med.Sci.D., Columbia, 1965*

Associate Clinical Professors

William C. Cooper. *B.S., Franklin and Marshall, 1953; M.D., Cornell, 1956*
John W. Espy. *B.S., Franklin and Marshall, 1953; M.D., Cornell, 1956*
Frank B. Hoefle. *B.A., Dartmouth, 1957; M.D., Harvard, 1961*
George M. Howard. *B.A., Dartmouth, 1952; M.D., Albany, 1959*

Assistant Professor of Biophysical Ophthalmology

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Assistant Professor of Ophthalmic Biochemistry

James P. Dillon. *B.S., Canisious, 1964; M.S., Columbia, 1973; Ph.D., 1974*

Assistant Professor of Ophthalmic Pharmacology

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Assistant Professor of Pathology

Merlin D. Marquardt. *B.S., Wisconsin, 1967; M.D., 1971*

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Assistant Professors of Clinical Ophthalmology

Lisa G. Barbera. *B.S., Vassar, 1972; M.D., Columbia, 1976*
Arnold W. Forrest. *B.A., Columbia, 1939; M.D., New York University, 1942*
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Assistant Clinical Professors

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Ellen F. Regan. *B.A., Wellesley, 1940; M.D., Yale, 1943*

SPECIAL LECTURERS
Frank M. Carroll, M.D.
George R. Merriam, M.D.

SPECIAL LECTURERS IN BIOCHEMISTRY
Zacharias Dische, M.D.
Karl Meyer, M.D.

LECTURERS
Frederic H. Deutsch, Ph.D.
Frank Di Benedetto, Ph.D.
Hampson S. Sisler, Ph.D.
Mark D. Stern, M.D.
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Richard D. Banyard, M.D.
Donald H. Green, M.D.
Richard G. Lennon, M.D.
Cynthia Mackay, M.D.
Lance D. Redler, M.D.

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William H. Garner, Ph.D.
James E. Haley, Ph.D.
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Ulises Arango, M.D.
Philip A. Bonanno, M.D.
Robert C. Della Rocca, M.D.
Bruce M. Hyman, M.D.
Richard S. Kochman, M.D.
Thomas O. Muldoon, M.D.
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Bernard J. Fowler, M.D.
Charles Merker, M.D.
Chalempong Sarakhun, M.D.
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Orthopedic Surgery

Professor of Clinical Orthopedic Surgery and Acting Chairman

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Professors of Clinical Orthopedic Surgery

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Professor of Clinical Pathology

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Robert N. Dunn, M.D.
Merle H. Katzman, M.D.
Harvey Orlin, M.D.
Thomas D. Rodda, M.D.
Joseph E. Salvatore, M.D.
E. Baldwin Self, Jr., M.D.
David M. Smith, M.D.
Martin L. Sorger, M.D.
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James S. Kort, M.D.
Lawrence A. Lefkowitz, M.D.
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Melvin P. Rosenwasser, M.D.
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Hervey S. Sicherman, M.D.
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James C. Parkes II, M.D.

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Sanford A. Ratzan, M.D.
Luther F. Warren, M.D.
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Otolaryngology

Professor and Chairman

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Professor

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Professor of Clinical Audiology and Speech Pathology

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Associate Professor

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Shyam K. Khanna. *B.Sc., Lucknow (India), 1951; D.R.E., St. Xavier's (Bombay), 1951*

Associate Clinical Professors

Frank D. Mignogna. *B.A., Princeton, 1961; M.D., New Jersey College of Medicine and Dentistry, 1965*
Lawrence Savetsky. *B.A., New York University, 1951; M.D., State University of New York (Downstate), 1955*
Malcolm H. Schvey. *B.A., Lehigh, 1947; M.A., Columbia, 1950; M.D., Amsterdam, 1956*

Associate Professor of Clinical Dentistry

Steven Roser (in Surgery). *B.A., Middlebury, 1964; D.M.D., Harvard, 1968; M.D., 1972*

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Cheng Chun Huang. *B.S., Taiwan, 1963; M.S., Vanderbilt, 1966; Ph.D., Iowa, 1970*

Assistant Professors of Clinical Otolaryngology

Soly Baredes. *B.A., Columbia, 1972; M.D., 1976*
Anthony Frederick Jahn. *B.Sc., Toronto, 1969; M.Sc., 1970; M.D., 1974*

Assistant Clinical Professors

John D. Piro (Prosthetics). *B.A., Fordham, 1943; D.D.S., Columbia, 1946*
Raymond B. Strauss. *B.A., Washington (St. Louis), 1950; Ph.D., Florida, 1956; M.D., Western Reserve, 1968*

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Vincent G. Caruso, M.D.
Daniel J. Pender, M.D.
Nicholas D. Pontilena, M.D.
William R. Richtmeier, M.D.

INSTRUCTORS (*continued*)

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Howard D. Zipper, M.D.

STAFF ASSOCIATE

Svetlana Kaufman, M.D.

At Harlem Hospital

Associate Clinical Professor

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Assistant Professor of Clinical Otolaryngology

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Assistant Clinical Professor

Ransford C. Newman (in Surgery). *M.B., B.S., London, 1960; F.R.C.S., Edinburgh, 1968*

At St. Luke's–Roosevelt Hospital Center

Associate Clinical Professor

John S. Lewis. *M.D., Alberta (Canada), 1953*

INSTRUCTORS IN CLINICAL OTOLARYNGOLOGY

Awny Aziz Abdou, M.B., Ch.B.
Arshad H. Amjad, M.D.
Maria Aramburu, M.D.
Neville W. Carmical, M.D.
James F. Grillo, M.D.

INSTRUCTORS (*continued*)

Alan Jacobson, M.D.
Scott M. Kessler, M.D.
Tay Bong Lee, M.D.
Pi-Tang Lin, M.D.
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Pathology

Professor of Neuropathology and Acting Chairman

Phillip E. Duffy. *B.A., Columbia, 1943; M.D., 1947*

At Presbyterian Hospital

Professors

Richard Axel (also Biochemistry). *B.A., Columbia, 1967; M.D., Johns Hopkins, 1970*
William A. Blanc. *B.A., Geneva, 1940; M.D., 1947; Ph.D., 1952*
Paul Ellner (also Microbiology). *B.S., Long Island, 1940; M.S., Southern California, 1952; Ph.D., Maryland, 1956*
Cecilia M. Fenoglio. *B.S., St. Elizabeth, 1965; M.D., Georgetown, 1969*
Soldano Ferrone (in Surgery). *M.D., Milan (Italy), 1964; Ph.D., 1971*
Gabriel C. Godman (also Microbiology). *B.A., New York University, 1941; M.D., 1944*
Conrad L. Pirani. *B.A., Johns Hopkins, 1954; M.D., Rochester, 1958*
Ralph M. Richart. *B.A., Johns Hopkins, 1954; M.D., Rochester, 1958*
Virginia Tennyson (also Anatomy and Cell Biology). *B.S., Pennsylvania State, 1946; M.S., Baylor, 1956; Ph.D., Columbia, 1960*

Professor of Microbiology

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Professor of Comparative Pathology

Ross M. Grey. *D.V.M., Alabama Polytechnic Institute, 1945*

Professor of Neuropathology

Leon Roizin (in Psychiatry). *B.A., State Lyceum (Bessarabia), 1930; M.D., Royal University (Milan), 1936*

Professor of Surgical Pathology

Luciano Ozzello. *M.D., Turin, 1951*

Adjunct Professors

S. Raymond Gambino. *B.S., Antioch, 1948; M.D., Rochester, 1952*
Robert V. Hutter. *B.A., State University of New York (Syracuse), 1950; M.D., 1954; M.A., Yale, 1958*
Harry L. Ioachim. *M.D., Bucharest, 1949*
Sidney Pestka. *B.A., Princeton, 1957; M.D., Pennsylvania, 1961*

Professors of Clinical Pathology

Carmia Borek (in Radiology). *B.S., M.S., Ph.D., Weitzmann Institute (Israel), 1967*
Austin D. Johnston (in Orthopedic Surgery). *B.A., Columbia, 1945; M.D., 1947*
Nicole Suciu-Foca (in Surgery). *B.S., Bucharest, 1959; M.S., 1960; Ph.D., 1965*

Professor of Clinical Surgical Pathology

Karl Perzin. *B.A., Columbia, 1954; M.D., 1958*

Clinical Professors

Pablo Rubinstein. *M.D., Chile, 1962*
Sheldon C. Sommers. *M.D., Harvard, 1941*

Clinical Professor of Oral Pathology

Melvin N. Blake. *B.S., Massachusetts, 1951; D.D.S., New York University, 1955*

Adjunct Clinical Professor

Jan Vincent Johannesen. *M.D., Bergen (Norway), 1966*

Associate Professors

John J. Fenoglio, Jr. *B.A., Harvard, 1965; M.D., Georgetown, 1969*
John F. Nicholson (also Pediatrics). *B.A., Vanderbilt, 1955; M.D., 1959*

Associate Professor of Dentistry

David J. Zegarelli. *B.A., Columbia, 1965; D.D.S., 1969*

Associate Professors of Neuropathology

Lester M. Geller. *B.A., Cornell, 1947; M.A., Michigan State, 1948; Ph.D., New York University, 1953*
Mavis Kaufman (in Psychiatry). *M.D., New York Medical College, 1944*

Associate Professor of Clinical Neuropathology

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Associate Professors of Clinical Pathology

Thomas A. Blumenfeld. *A.A., North Carolina, 1960; M.D., Tennessee, 1964*
Arline D. Deitch (in Anatomy and Cell Biology). *B.A., Brooklyn, 1944; M.A., Columbia, 1946; Ph.D., 1954*
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Associate Professor of Clinical Pediatric Pathology

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Associate Clinical Professors

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Richard L. Swarm. *B.A., Washington (St. Louis), 1949; M.D., 1950*
Ruth H. Vogel. *Ph.D., New York University, 1958*

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Stephen Keller. *B.S., Pace, 1971; M.A., M.Phil., Ph.D., Columbia, 1974*
Jay Lefkowitch. *B.A., Clark, 1972; M.D., Columbia, 1976*
Charles C. Marboe. *B.A., Princeton, 1971; M.D., Pennsylvania State, 1976*
Merlin D. Marquardt (in Ophthalmology). *B.S., Wisconsin, 1967; M.D., 1971*
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Armand F. Miranda. *B.S., Columbia, 1969; Ph.D., 1973*
Ah-Kau Ng. *B.S., National Chung Hsing (Taiwan), 1969; M.A., State University of New York (Plattsburg), 1972; Ph.D., Temple, 1975*
Carlo Russo. *M.D., Geneva, 1977*
Janet Tannenbaum. *B.A., Brandeis, 1969; M.Phil., Columbia, 1974; Ph.D., 1975*

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Heldrun Zweitnig-Rotterdam. *M.D., Munich, 1968*

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Assistant Professors of Clinical Pediatric Psychology

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Garth Alperstein. *M.B., Ch.B., Cape Town, 1973*
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Herbert I. Cohen. *M.D., Johns Hopkins, 1949*
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Max F. Van Gilder. *B.S., Tulane, 1967; M.D., 1971*
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Nancy Holahan, M.D.
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Ruth E. Kessler, M.D.
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Priscilla W. Lewis, M.D.
Richard Gary Merkler, M.D.
Edward A. Nichols, M.D.
Flora Ramirez, M.D.
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INSTRUCTORS IN CLINICAL PEDIATRICS

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Luminita M. David, M.D.
Morel Duverseau, M.D.
Christodoulos Iordanou, M.D.
Martha Katz, M.D.
Amelia Reyes, M.D.
Melanie Rivenzon, M.D.
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Professor of Medical Psychology

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David Shaffer (also Pediatrics). *M.D., London, 1961*
John Weber. *B.A., Duke, 1939; M.D., Yale, 1943*

Professor of Clinical Psychiatry Epidemiology

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Professors of Clinical Psychology

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Clinical Professors

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Associate Professor of Clinical Neurochemistry

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Liselotte Graf. *M.D., Vienna, 1937*

Associate Professors of Clinical Psychiatry

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Associate Professors of Clinical Psychology

Judith V. Becker. *M.S., Eastern Washington State, 1968; Ph.D., Southern Mississippi, 1975*
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Associate Professor of Clinical Psychopharmacology

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Associate Clinical Professors

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Rodman Gilder, Jr. *M.D., Columbia, 1944*
Arthur Green. *B.A., Rochester, 1951; M.D., Amsterdam (The Netherlands), 1955*
Stanley Heller. *B.A., Yale, 1956; M.D., Columbia, 1960*
Winslow R. Hunt. *B.A., Chicago, 1946; M.A., 1950; M.D., Columbia, 1958*
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Eric Marcus (also Medicine). *B.A., Columbia, 1965; M.D., Wisconsin, 1969*
Donald I. Meyers. *B.S., Franklin and Marshall, 1946; M.D., Jefferson, 1950*
Helen C. Meyers. *B.A., Hunter, 1945; M.D., New York University, 1949*
John F. O'Connor. *B.S., Columbia, 1948; M.D., State University of New York, 1952*
Seymour Post. *M.D., New York University, 1947*
Daniel Shapiro. *M.D., Illinois, 1945*
Leonard M. Sheehy. *B.A., Harvard, 1960; M.D., McGill, 1968*

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Laurence L. Greenhill. *B.A., Columbia, 1963; M.D., Albert Einstein, 1967*
Kenneth Greenspan. *M.D., Albert Einstein, 1963*
Janos Kurucz. *M.D., Budapest, 1950*
Michael R. Liebowitz. *B.A., Yale, 1965; M.D., 1969*
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Associate Professors

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Elmer Struening. *B.S., Hastings, 1949; M.S., Purdue, 1951; Ph.D., 1957*

Adjunct Associate Professors

Patricia R. Cohen. *B.A., Hamline, 1958; Ph.D., New York University, 1968*
Holger H. Hansen. *M.D., Freie Universität (Berlin), 1961; M.P.H., Columbia, 1967; Dr.P.H., 1973*

Research Scientists

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Assistant Professors

Ora S. Fagan. *B.A., Hebrew (Jerusalem), 1961; M.S.W., California (Berkeley), 1965; D.S.W., 1973*
Bruce G. Link. *B.A., Earlham, 1971; Ph.D., Columbia, 1980*
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Ruth Ottman (in the Sergievsky Center). *B.A., California (Berkeley), 1975; Ph.D., 1980*
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Paul S. May. *B.S., College of the City of New York, 1951; M.S., Syracuse, 1952; D.Sc., Philadelphia College of Pharmacy, 1955; M.P.H., Columbia, 1970*
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SPECIAL LECTURER
Anna C. Gelman, M.P.H.

LECTURERS
Stephen M. Friedman, M.D., M.P.H.
Alan R. Kristal, Dr.P.H.
Jaime E. Olle, M.D., M.P.H.

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Health Administration

Professors

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Adjunct Professors

Arne C. Barkhaus (Public Health Practice). *B.A., Copenhagen, 1926; M.D., 1933; D.P.H., Johns Hopkins, 1938*
Joseph V. Terenzio. *B.A., Yale, 1939; J.D., Fordham, 1947; M.S., Columbia, 1954*

Clinical Professor

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Adjunct Associate Professors

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Harold Fruchtbaum (History and Philosophy of Public Health). *B.C.E., New York University, 1955; M.S., Rensselaer Polytechnic Institute, 1956; Ph.D., Harvard, 1964*
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Assistant Professors

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Sheila A. Gorman. *B.S., R.N., Niagara, 1959; M.P.H., Columbia, 1972*
Marcia L. Pinkett-Heller. *B.A., Howard, 1963; M.P.H., Michigan, 1970*
Levi A. Sorrell. *B.S., Massachusetts Institute of Technology, 1976; M.B.A., 1978; Ph.D., 1982*
Ralph Joseph Ullman. *B.A., Cornell, 1970; M.B.A., Rochester, 1972; M.S., 1979*

Assistant Professors of Nursing

Melanie Dreher. *B.S.N., Long Island, 1967; Ph.D., Columbia, 1977*
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Assistant Clinical Professor

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John Baer. *B.A., Oberlin, 1959; M.S., Columbia, 1961; D.P.A., New York University, 1967*
Arlene Bregman. *B.A., State University of New York (Albany), 1971; M.P.D., Columbia, 1975*
Annette Choolfaian. *B.S., Bridgeport, 1964; M.P.A., New York University, 1972*
Merle C. Cunningham. *B.A., Rochester, 1976; M.D., Columbia, 1972; M.P.H., 1976*

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William H. Hermann. *B.S., Missouri, 1951; M.S., Yale, 1953*
Nicholas Herskovits. *B.B.A., Bernard Baruch School of Business and Public Administration, 1963*
Sonja Johansen. *B.A., California (Berkeley), 1958; M.A., 1960; M.P.A., Alaska, 1978; M.Phil., Columbia, 1981; Ph.D., 1982*
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Francis C. Lindaman. *B.A., Gettysburg, 1935; M.A., 1936*
William L. Nute, Jr. *B.A., Swarthmore, 1938; M.D., Johns Hopkins, 1943*
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Eleanore Rothenberg. *B.A., Brooklyn, 1955; M.P.A., New York University, 1969; Ph.D., 1975*
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Michael L. Ziegler. *B.A., State University of New York (Albany), 1972; J.D., State University of New York (Buffalo), 1976*

SPECIAL LECTURERS

Gloria L. A. Dammann, M.P.H.
Beatrice Mintz, M.P.H.

LECTURERS

Kenneth Adamec, M.S.
George H. Adams, M.S.
Frederick D. Alley, M.S.
Allan C. Anderson, M.H.A.
Peter Baglio, Sc.M.
Richard A. Berman, M.B.A., M.H.A.
Robert L. Boyar, B.Arch.
William H. Brown, B.A.
Carlos J. Caguiat, M.P.H.
Martin Cherkasky, M.D.
Irene Clark, M.P.H.
Alvin J. Conway, M.S.
Daniel L. Drosness, M.P.H.
Gary M. Eidsvold, M.D.
Yehudi M.Felman, M.D.
Andrew C. Fleck, Jr., M.D.
Thomas J. Foley, M.S.
Stephen L. Forstenzer, M.S.
Nicholas Freudenberg, Dr.P.H.

LECTURERS *(continued)*

Herbert M. Friedman, M.B.A.
Bernard Fuss, M.S.
Gary Gambuti, M.P.A.
Terrance E. Gardet, M.P.H.
George Goldberg, M.B.A.
Margaret M. Griesmer, B.S.
Margaret T. Grossi, M.D.
Anne C. Hargeaves, M.S.
David Harris, M.D.
Frank W. Hays, M.B.A.
Cathy M. Idema, M.P.H.
Pascal J. Imperato, M.D., M.P.H.
Florence Kavaler, M.D.
John T. Kolody, M.S.
Jacob L. Lindenthal, Ph.D., Dr.P.H.
Regina Loewenstein, M.A.
Vivian E. Lubin, M.P.H.
Elaine Lugovoy, M.A.
Richard K. Manoff, M.S.
Robert Markowitz, M.S.
Lawrence E. McDevitt, B.A.
Mary C. McLaughlin, M.D.
Charles H. Meyer, M.S.

LECTURERS *(continued)*

Penelope F. Murphy, M.S.
Anthony C. Mustalish, M.D.
Janet M. Nakushian, M.A.
Karl E. Nelson, M.S.
Margaret J. O'Brien, M.P.H.
Donna O'Hare, M.D.
Jean Pakter, M.D.
Clarence E. Pearson, M.S.
Richard H. Perry, M.S.
Olive E. Pitkin, M.D.
Peter Rogatz, M.D.
Edward J. Rosasco, Jr., M.B.A.
Alan H. Rosenblut, M.B.A.
Hana Rostain, M.D.
Rachel Rotkovitch, Ph.D.
Harvey Schoenfeld, M.B.A.
Joseph Sherber, M.S.
Elliot J. Simon, M.S.
Alvin H. Strelnick, M.D.
Thomas J. G. Tighe, M.P.H.
Margaret E. Walsh, M.Litt.

INSTRUCTORS

Stephen Banks, M.D.
Peter D. Bardax, J.D.

INSTRUCTORS *(continued)*
Barbara S. Cooper, M.D.
Catherine D. Crone, M.D.
Neal A. Demby, D.M.D., M.P.H.
Michael Goldfarb, M.S.
Ruthe Haase, M.A.
Margaret L. Haynes, M.P.H.
Steven Karten, M.B.A.
Dulcy B. Miller, M.S.

INSTRUCTORS *(continued)*
Lin H. Mo, M.B.A., M.P.H.
Thomas A. Sherwood, M.P.H.
Joseph B. Stamm, M.P.A.
Virginia K. Stowe, M.S.
Sam R. Toussie, Ph.D.

SENIOR STAFF ASSOCIATE
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ASSOCIATES
Renton Bond, B.A.
Robert M. Carr, M.B.A.
Deborah E. Halper, M.P.H.
Anne B. Jacobs, M.P.H.
Ann R. Warner, B.A.
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Ilise A. Zimmerman, M.P.H.

Population and Family Health

Professor

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Professors of Clinical Public Health

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Associate Professor

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Adjunct Associate Professors

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Joy G. Dryfoos. *B.A., Antioch, 1951; M.A., Sarah Lawrence, 1966*
Thomas Frejka. *Engineer, Czechoslovakia Academy of Sciences, 1966*

Associate Professors of Clinical Public Health

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Senior Research Associate

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Assistant Professors

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Assistant Clinical Professors

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Assistant Professor of Clinical Public Health

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LECTURERS
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Richard C. Friedman, M.D.
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Elizabeth K. Kellner, M.P.H.
Thomas H. Lyman-Fenn, M.A.
Mohammed H. Matthews, M.P.H.
Maudene Nelson, M.S. (Institute of Human Nutrition)

Sociomedical Sciences

Professors

Jack Elinson (Acting Division Head). *B.S., College of the City of New York, 1937; M.A., George Washington, 1946*
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Clinical Professor

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Associate Professor

John L. Colombotos. *B.A., Columbia, 1949; M.A., 1952; Ph.D., Michigan, 1961*

Associate Professor of Clinical Psychiatry

Ruth G. Bennett. *B.A., Brooklyn, 1955; Ph.D., Columbia, 1962*

Research Scientists

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Assistant Professor of Anthropology

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Adjunct Assistant Professors

Margery Braren. *M.A., Columbia, 1963; Ph.D., 1971*
Sally Guttmacher. *B.S., Wisconsin, 1963*
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Thomas Tam, M.P.H., Ph.D.

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Tropical Medicine

Professors

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Associate Professor

Philip A. D'Alesandro (Division Head) (Parasitology) (also Microbiology). *B.S., Rutgers, 1952; M.S., 1954; Ph.D., Chicago, 1958*

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Assistant Clinical Professor

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Professors

Sami A. Hashim (Public Health Nutrition). *B.S., Beirut, 1950; M.N.S., 1948; Ph.D., Harvard, 1955*

Adjunct Professor

Myron Brin (Public Health Nutrition). *B.S., Cornell, 1947; M.N.S., 1948; Ph.D., Harvard, 1951*

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James Picker Professor and Chairman

David H. Baker. *M.D., Boston, 1951.*

At Presbyterian Hospital

Professors

Philip O. Alderson. *B.A., Washington (St. Louis), 1966; M.D., 1970*
Walter E. Berdon. *B.A., Syracuse, 1950; M.D., 1955*
Chu Huai Chang. *M.D., St. John's (Shanghai), 1944*
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Kent Ellis. *M.D., Yale, 1950*
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Sadek Hilal. *M.D., Cairo, 1955*
Harald H. Rossi (Physics). *Ph.D., Johns Hopkins, 1942*

Professor of Clinical Pathology

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Professors of Clinical Radiology

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Eric C. Martin. *B.A., Oxford, 1963; M.A., 1967; M.D., St. Thomas (London), 1967*
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Adjunct Professors

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Associate Professor

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Associate Professors of Clinical Radiology

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Rashid Fawwaz. *M.D., American (Beirut), 1960; Ph.D., California (Berkeley), 1968*
Monique C. Katz. *B.A., Vassar, 1959; M.D., Albert Einstein, 1963*
Edward L. Nickoloff. *B.S., Carnegie Institute of Technology, 1965; M.S., New Hampshire, 1968; Sc.D., Johns Hopkins, 1977*
Alan J. Silver. *B.A., Harvard, 1967; M.D., Rochester, 1973*

Adjunct Associate Professor

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Associate Clinical Professors

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Karen S. Fountain. *B.A., Northern State (South Dakota); M.D., Maryland, 1972*
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Paul Sane. *M.D., Bucharest, 1950*

Research Scientists

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Jong-Beom Ra. *Ph.D., Advanced Institute of Science Technology (Korea), 1983*

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Elliott Fanchuken. *B.A., New York University, 1971; M.D., State University of New York (Buffalo), 1975*
Susan Frank. *B.A., Pennsylvania, 1972; M.D., Columbia, 1977*
David C. Grant. *M.D., Case Western Reserve, 1975*
Karen Laffey. *B.A., Bryn Mawr, 1968; M.Phil., Yale, 1971; Ph.D., 1974; M.D., 1977*
Arthur Liskow. *B.S., Cincinnati, 1963; M.D., 1967*
Andrew Arthur Maudsley. *B.S.C., Nottingham, 1973; Ph.D., 1976*
Michel E. Mawad. *M.D., French University (Beirut), 1976*
Elizabeth W. O'Connell. *B.A., New York University, 1973; M.D., New York Medical College, 1976*
Ahalya Premkumar. *M.D., Bombay, 1977*
Joel M. Rosen. *B.S., Brooklyn, 1971; M.D., Cornell, 1975; M.S., Pennsylvania, 1977*
David W. Seldin. *B.S., Massachusetts Institute of Technology, 1968; M.S., Colorado, 1970; M.D., New York University, 1975*
Lorraine G. Shapeero. *B.A., California (Berkeley), 1964; M.D., California (San Francisco), 1968*
Robert E. Sibley. *B.S., Notre Dame, 1974; M.D., Columbia, 1978*
Rolando D. Singson. *B.S., Santo Tomas (Philippines), 1965; M.D., 1970*

Assistant Professors of Clinical Radiology

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Assistant Clinical Professors

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Gregory Marc Carsen. *B.A., Oberlin, 1965; M.D., State University of New York (Downstate), 1969*
David A. Follett. *B.A., Harvard, 1959; M.D., Tufts, 1954*
Shelby J. Galloway. *B.A., Catawba, 1961; M.D., Bowman-Gray, 1965*
Richard Gold. *B.A., Tufts, 1965; M.D., 1969*
William M. Griffin. *B.S., Notre Dame, 1958; M.D., State University of New York (Upstate), 1962*
Harvey L. Hecht. *B.A., Amherst, 1958; M.D., Albert Einstein, 1962*
Michael J. Marchese. *B.A., New York University, 1976; M.D., Baylor, 1979*
Steven D. Richman. *B.A., Columbia, 1967; M.D., 1971*
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Associate Research Scientists

Myles Barry Astor. *B.A., Columbia, 1976; M.A., 1981; M.Phil., Ph.D., 1982*
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William A. Gardner, M.D.
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Leslie Mark Kutcher, M.D.
Mark David Sherman, M.D.
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Myron Tannenbaum. *B.S., New York University, 1952; M.S., 1955; Ph.D., 1957; M.D., Chicago, 1961*

Associate Professors of Clinical Urology

Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

Associate Clinical Professors

Stanley B. Braham. *B.A., Columbia, 1944; M.D., 1947*
Frank W. Longo. *B.S., Maryland, 1951; M.D., 1955*
Myron S. Roberts. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1954*

Assistant Professors

Minh Chi Nguyen Huu. *M.Sc., Technical (West Berlin), 1975; Ph.D., Max-Planck Institut, 1977*
Harris M. Nagler. *B.S., Union (Schenectady), 1971; M.D., Temple, 1975*

Assistant Professor of Clinical Pathology

Philip Tomashefsky. *Ph.D., New York University, 1969*

Assistant Professors of Clinical Urology

John D. Birkoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Terry W. Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*

Assistant Clinical Professors

Peter N. De Sanctis. *B.A., New York University, 1952; M.D., Boston, 1962*
J. Timothy Donovan. *M.D., New York Medical College, 1948*
Louis J. Dougherty. *B.A., Yale, 1950; M.D., Cornell, 1954*

John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Michael H. Wechsler. *B.S., Trinity (Connecticut), 1961; M.D., St. Louis, 1965*

ASSOCIATES IN CLINICAL UROLOGY
Leonard J. Rudin, M.D.
Charles E. Umhey, Jr., M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Kevin E. Burbige, M.D.
Richard Kroll, M.D.

RESEARCH ASSOCIATES
John Kallos, B.Sc.
Walter King, Ph.D.

STAFF ASSOCIATE
Ralph Buttyan, Ph.D.

At Mary Imogene Bassett Hospital

Associate Clinical Professor of Surgery

Rodman D. Carter. *B.A., Harvard, 1950; M.D., Columbia, 1954*

INSTRUCTOR IN CLINICAL UROLOGY
Bruce MacDonald, M.D.

At Overlook Hospital

Assistant Clinical Professor

Robert R. White. *B.A., Amherst, 1949; M.D., Rochester, 1954*

ASSISTANTS IN CLINICAL UROLOGY
Joel S. Cohen, M.D.
Malcolm Schwartz, D.O.

ASSOCIATES IN CLINICAL UROLOGY
Kenneth L. Day, M.D.
Pascal A. Pironti, M.D.
Joseph S. Ritter, M.D.
Morey Wosnitzer, M.D.

At St. Luke's–Roosevelt Hospital Center

Associate Clinical Professor

Joseph N. Ward. *M.B., B.Ch., University College (Dublin), 1949*

Assistant Clinical Professors

William J. Nelson. *B.A., Williams, 1945; M.D., New York Medical College, 1946*
Robert D. Wickham. *B.A., Drew, 1947; M.D., Albany Medical College, 1952*

ASSISTANT IN CLINICAL UROLOGY
Damir Velcek, M.D.

ASSOCIATES IN CLINICAL UROLOGY
William Reed Pitts, Jr., M.D.
Arumbi P. Subramaniam, M.D.
Pellegrino J. Tozzo, M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Waleed G. Maloof, M.D.
Alexander Sotiropoulos, M.D.
James W. Vastola, M.D.

Centers and Institutes

Center for Neurobiology and Behavior

INSTRUCTOR

Tsunao Saitoh, Ph.D.

Comprehensive Cancer Center

STAFF ASSOCIATES

Cecil Mark Eppler, Ph.D.
John H. Martin, Ph.D.
Jean Louise McDowell, B.S

General Clinical Research Center

STAFF ASSOCIATES

Thomas N. Lyman-Fenn, B.A.
Priscilla Randall, M.P.H.
Erik Raymond Rowberg, B.S.
Sarah Maria Santana, M.P.H., Dr.P.H.
Weng Kong Sung, Ph.D.

Sergievsky Center

Associate Research Scientists

Oliver F. Chadwick. *B.A., Oxford, 1968; Ph.D., University College (London), 1972*
Jennie K. Kline. *B.A., Chicago, 1972; M.S., Columbia, 1974; M.Phil., 1975; Ph.D., 1977*

STAFF ASSOCIATES

John L. Kiely, B.A., M.A., M.Phil.
Stephen K.C. Ng, M.D.

International Institute for the Study of Human Reproduction

Assistant Professor of Clinical Public Health

Michele G. Shedlin, M.A.

Associate Research Scientists

James M. Allman. *B.A., Rutgers, 1965; M.A., Harvard, 1972; Ph.D., 1973*
Donald J. Lauro. *B.A., California (Berkeley), 1966; M.A., 1971; Ph.D., Australian National, 1979*
Eugene Martin Weiss. *B.A., California (Berkeley), 1963; M.P.H., 1965; Ph.D., Michigan, 1972*

RESEARCH ASSOCIATES

Jane Bertrand, Ph.D.
James R. Foreit, Ph.D.

Institute for Cancer Research

Associate Research Scientists

Sebastiano Gattoni. *M.D., Naples, 1972*
James F. Jackson. *B.A., Princeton, 1974; Ph.D., Edinburgh, 1977*

STAFF ASSOCIATES

Vladimir Axelrod, Ph.D.
Joseph M. Backer, Ph.D.
Ranjit Banejee, Ph.D.
Paul Kirschmeier, Ph.D.
Eleanor Miele, Ph.D.

Institute of Human Nutrition

Associate Research Scientist

Robin Marks Kaufman. *B.S., Cornell, 1976; M.S., Tufts, 1979; Ph.D., 1981*

LECTURERS

Neville Colman, M.D., Ph.D.
Peter Hakim, M.P.A.
Robert Karp, M.A.
Ann Sullivan, Ph.D.
Joseph R. Vasselli, Ph.D.

STAFF ASSOCIATE

Maudene Nelson, M.S.

First-Year Postgraduate Appointments: Class of 1983

Aldea, Peter. *Stanford University, Stanford, California.* Plastic Surgery
Alonso, Jose. *Presbyterian Hospital, New York, New York.* Rehabilitation Medicine
Andersen, Rolf. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Arliss, Jeffrey. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* General Surgery
Bar, Michael. *Presbyterian Hospital, New York, New York.* Medicine
Baran, Syma. *St. Luke's Hospital, New York, New York.* Obstetrics/Gynecology
Basner, Robert. *Beth Israel Hospital, Boston, Massachusetts.* Medicine
Bauer, R. David. *New York University Medical Center, New York, New York.* Orthopedic Surgery
Beck, Marc. *Presbyterian Hospital, New York, New York.* Surgery
Ben-Zvi, Jeffrey. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* Medicine
Black, Alexander. *Presbyterian Hospital, New York, New York.* Medicine
Blackwood, Alexander. *University of California Hospitals, San Francisco, California.* Pediatrics
Blizzard, Victoria. *Mt. Sinai Hospital, New York, New York.* Psychiatry
Bobella, Stephen. *Overlook Hospital, Summit, New Jersey.* Medicine
Bonner, Matthew. *Medical Center Hospital, University of Vermont, Burlington, Vermont.* Medicine
Boos, Steven. *U.S. Air Force, Travis AFB, California.* Pediatrics
Boyle, Allyson. *University of California, Davis, California.* Medicine
Boyle, Thomas. *North Shore University Hospital, Manhasset, New York.* Medicine/Radiology
Breidbart, Scott. *Presbyterian Hospital, New York, New York.* Pediatrics
Brill, David. *Yale-New Haven Medical Center, New Haven, Connecticut.* Medicine
Bush, James. *Morristown Memorial Hospital, Morristown, New Jersey.* Medicine/Ophthalmology
Cahill, Peter. *Stanford University, Stanford, California.* Urology
Camacho, Victor. *University of California, Davis, California.* Anesthesiology
Camerino, Vicki. *St. Vincent's Hospital, New York, New York.* Transitional/Ear, Nose, Throat
Camuto, Patricia. *Yale-New Haven Medical Center, New Haven, Connecticut.* Surgery/Ear, Nose, Throat
Carpenter, Richard. *Johns Hopkins University, Baltimore, Maryland.* Pediatrics
Carpenter, Susan. *Johns Hopkins University, Baltimore, Maryland.* Obstetrics/Gynecology
Caselli, Richard. *Mayo Graduate School of Medicine, Rochester, Minnesota.* Neurology
Chalfin, Laura. *Altoona Hospital, Altoona, Pennsylvania.* Family Practice
Chen, William. *University of California Hospital, Los Angeles, California.* Medicine
Davidson, Peter. *Boston City Hospital, Boston, Massachusetts.* Medicine
Davis, Maris. *New York University Veterans Administration Hospital, New York, New York.* Medicine
Davitz, Michael. *New York University Medical Center, New York, New York.* Pathology
Dillon, John. *North Carolina Memorial Hospital, Chapel Hill, North Carolina.* Medicine
Donnenberg, Michael. *Baltimore City Hospitals, Baltimore, Maryland.* Medicine
Duralde, Xavier. *Presbyterian Hospital, New York, New York.* General Surgery/Orthopedics
Durand, David. *University of Pennsylvania, Philadelphia, Pennsylvania.* Pathology
Dushay, Kevin. *Beth Israel Hospital, Boston, Massachusetts.* Medicine

Eaton, Bradford. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* General Surgery/Orthopedics
Epner, Elliot. *University of California, Irvine, California.* Medicine
Epstein, Wendy Keller. *New York University Veterans Administration Hospital, New York, New York.* Medicine/Dermatology
Erly, William. *University of Colorado Affiliated Hospital, Denver, Colorado.* Family Practice
Feind, Carl. *St. Mary's Hospital, San Francisco, California.* Psychiatry
Felix, Alan. *Mercy Hospital, San Diego, California.* Transitional/Psychiatry
Fiorito, Joseph. *Mt. Sinai Hospital, New York, New York.* Medicine
Fisher, Margaret. *Case Western Reserve University, Cleveland, Ohio.* Medicine
Flamm, Michael. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Fletcher, Christopher. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* Anesthesiology
Florakis, George. *Overlook Hospital, Summit, New Jersey.* Transitional/Ophthalmology
Freilich, David. *Mt. Sinai Hospital, New York, New York.* Medicine
Friedman, David. *Overlook Hospital, Summit, New Jersey.* Transitional/Radiology
Gaines, Alan. *Mt. Sinai Hospital, New York, New York.* Pediatrics
Garbowit, David. *University of Alabama Medical Center, Birmingham, Alabama.* Medicine
Genecin, Paul. *Presbyterian Hospital, New York, New York.* Medicine
Glatt, Aaron. *Brookdale Hospital, Brooklyn, New York.* Medicine
Gliedman, Paul. *Beth Israel Hospital, New York, New York.* Medicine
Goldberg, Neal. *Presbyterian Hospital, New York, New York.* Surgery
Goldschmidt, Howard. *Mt. Sinai Hospital, New York, New York.* Medicine
Goldstein, Michael. *Morristown Memorial Hospital, Morristown, New Jersey.* Medicine
Gomez-Carrion, Yvonne. *Presbyterian Hospital, New York, New York.* Obstetrics/Gynecology
Green, Nancy. *Presbyterian Hospital, New York, New York.* Pediatrics
Gresalfi, Thomas. *Duke University, Durham, North Carolina.* Psychiatry
Gutowski, Ted. *Mt. Sinai Hospital, New York, New York.* Medicine
Hall, Walter. *University Health Center Hospitals, Pittsburgh, Pennsylvania.* Surgery/Neurosurgery
Harris, David. *Columbia University Center for Neurobiology and Behavior/Department of Biochemistry, New York, New York.* Research Fellowship
Hawke, Mary. *Baltimore City Hospitals, Baltimore, Maryland.* Medicine
Hirschfeld, Steven. *University of California Hospitals, San Francisco, California.* Pediatrics
Ingram, David. *University of Virginia, Charlottesville, Virginia.* Anesthesiology
Joffe, Mark. *Childrens Hospital, Philadelphia, Pennsylvania.* Pediatrics
Jones, Leon. *Virginia Mason Hospital, Seattle, Washington.* Transitional/Radiology
Kalb, Thomas. *New England Deaconess Hospital, Boston, Massachusetts.* Medicine
Kamer, Russell. *Long Island Jewish Hospital, New Hyde Park, New York.* Medicine
Kastelman, James. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Klapper, Robert. *Cedars-Sinai Medical Center, Los Angeles, California.* General Surgery/Orthopedics
Konecky, Alan. *Lenox Hill Hospital, New York, New York.* Medicine
Kriger, Alberto. *Childrens Hospital, Boston, Massachusetts.* Pediatrics
Lai-Goldman, Myla. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine/Pathology
Landry, Donald. *Massachusetts General Hospital, Boston, Massachusetts.* Medicine
Landzberg, Joel. *Vanderbilt University Affiliated Hospital, Nashville, Tennessee.* Medicine
Lederman, Seth. *Presbyterian Hospital, New York, New York.* Medicine

Letsou, George. *Yale-New Haven Medical Center, New Haven, Connecticut.* General Surgery
Linfield, Louis. *Presbyterian Hospital, New York, New York.* Medicine/Psychiatry
Lopez, Rafael. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* Urology
Luppescu, Neal. *Mt. Sinai Hospital, New York, New York.* Medicine
Lustick, Martin. *Childrens Hospital, Washington, D.C.* Pediatrics
Lytton, William. *University of Alabama Medical Center, Birmingham, Alabama.* Medicine/Neurology
MacFarlane, Michael. *Brigham & Women's Hospital, Boston, Massachusetts.* General Surgery/Urology
Maloney, William. *Stanford University, Stanford, California.* Orthopedic Surgery
Mandel, Michael. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Manley, John. *M. I. Bassett Hospital, Cooperstown, New York.* Transitional/Anesthesiology
Mattathias, Daniel. *Case Western Reserve University, Cleveland, Ohio.* Pediatrics
McCord, Mary. *Babies Hospital, New York, New York.* Pediatrics
Melfi, Robert. *George Washington University, Washington, D.C.* Medicine
Munro, Virginia. *Presbyterian Hospital, New York, New York.* Medicine/Psychiatry
Neuberg, Gerald. *Presbyterian Hospital, New York, New York.* Medicine
Okun, Alexander. *Babies Hospital, New York, New York.* Pediatrics
Ostrow, Steven. *Hackensack Hospital, Hackensack, New Jersey.* Transitional/Radiology
Perlmutter, Jeffrey. *George Washington University, Washington, D.C.* Medicine
Peterson, Mark. *Nassau Hospital, Mineola, New York.* Medicine/Radiology
Pierson, Richard. *University of Michigan Affiliated Hospitals, Ann Arbor, Michigan.* General Surgery
Pollak, Emil. *St. Luke's-Roosevelt Hospital Center (St. Luke's Division), New York, New York.* Medicine
Pollak, Jeffrey. *Morristown Memorial Hospital, Morristown, New Jersey.* Medicine/Radiology
Quartararo, Christopher. *University Hospital Stony Brook, Stony Brook, New York.* Anesthesiology
Quinn, Thomas. *Morristown Memorial Hospital, Morristown, New Jersey.* Medicine/Anesthesiology
Rampil, Ira. *University of California Hospitals, San Francisco, California.* Anesthesiology
Randolph, Paula. *Presbyterian Hospital, New York, New York.* Obstetrics/Gynecology
Retikas, Anthony. *Cleveland Clinic Hospital, Cleveland, Ohio.* Diagnostic Radiology
Rice, Louis. *New York University Medical Center, New York, New York.* Medicine
Rich, Thomas. *University Hospital, Stony Brook, New York.* Medicine/Anesthesiology
Ring, Wendy. *Scenic General Hospital, Modesto, California.* Family Practice
Roberts, William. *Presbyterian Hospital, New York, New York.* Medicine
Rochester, Carolyn. *Presbyterian Hospital, New York, New York.* Medicine
Rosenthal, Jonathan. *Case Western Reserve University, Cleveland, Ohio.* Medicine
Rovit, Adam. *Mount Auburn Hospital, Cambridge, Massachusetts.* Medicine/Ophthalmology
Ruttenberg, Margaret. *Yale-New Haven Medical Center, New Haven, Connecticut.* Obstetrics/Gynecology
Sacks, Andrew. *Millard Fillmore Hospital, Buffalo, New York.* Medicine
Sacks, Evan. *Beth Israel Hospital, New York, New York.* Medicine
Saver, Barry. *University of California Hospitals, Los Angeles, California.* Family Practice
Schlesinger, Gail. *Kaiser Foundation, San Francisco, California.* Medicine
Schoifet, Scott. *St. Vincent's Hospital, New York, New York.* General Surgery
Segal, Michael. *St. Louis Childrens Hospital, St. Louis, Missouri.* Pediatrics/Neurology
Shapiro, Matthew. *Maine Medical Center, Portland, Maine.* Surgery/Orthopedics
Simpson, Joseph. *Brookdale Hospital Center, Brooklyn, New York.* Medicine

Smires, Harvey. *St. Luke's-Roosevelt Hospital Center (Roosevelt Division), New York, New York.* General Surgery
Smith, Ann. *Mt. Sinai Hospital, New York, New York.* Surgery
Smith, Judith. *Yale-New Haven Medical Center, New Haven, Connecticut.* General Surgery
Starin, Lawrence. *St. Vincent's Hospital, New York, New York.* General Surgery
Sullivan, John. *Overlook Hospital, Summit, New Jersey.* Emergency Medicine
Tanenbaum, Gary. *Presbyterian Hospital, New York, New York.* General Surgery
Thoron, Louisa. *Georgetown University Hospital, Washington, D.C.* Medicine
Vagelos, Randall. *Presbyterian Hospital, New York, New York.* Medicine
Vande Wiele, Barbara. *University of California Hospital, Los Angeles, California.* General Surgery
Wang, Paul. *Presbyterian Hospital, New York, New York.* Medicine
Wang, Timothy. *Barnes Hospital, St. Louis, Missouri.* Medicine
Wasserman, Marcia. *The New York Hospital, New York, New York.* Pediatrics
Weinberger, Michael. *St. Vincent's Hospital, New York, New York.* Medicine
Weinstein, Lee. *Montefiore Hospital, Bronx, New York.* Medicine
Weinstock, Martin. *University Health Center Hospitals, Pittsburgh, Pennsylvania.* Medicine
Weissman, Jane. *Mt. Sinai Hospital, New York, New York.* Medicine
Whitley, Barbara. *University of Pennsylvania, Philadelphia, Pennsylvania.* Pathology
Widom, Barbara. *Stanford University, Stanford, California.* Medicine
Wilkens, James. *New England Deaconess Hospital, Boston, Massachusetts.* Medicine
Wilner, Philip. *The New York Hospital, New York, New York.* Psychiatry
Wimpfheimer, Miriam. *NewYork University Veterans Administration Hospital, New York, New York.* Medicine
Winter, Eric. *Presbyterian Hospital, New York, New York.* Surgery
Wissler, Richard. *Strong Memorial Hospital, Rochester, New York.* Pathology
Yolowitz, Greg. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* Anesthesiology
Yu, Leonard. *Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania.* General Surgery
Zigelman, Charles. *Brookdale Hospital Center, Brooklyn, New York.* Medicine

Student Roster: Class of 1984

Adkins, Elijah Stanton III Salisbury, Md. *B.A., Princeton, 1980*
Alland, David New York, N.Y. *B.A., Columbia, 1980*
Arato, Michael Plainview, N.Y. *B.S., Union (Schenectady), 1980*
Ashmead, Duffield Philadelphia, Pa. *B.A., Princeton, 1980*
Baez, Ana Luisa New York, N.Y. *B.S., City College, 1980*
Bannister, Kyra Heather Georgetown, Ct. *B.A., Vermont, 1980*
Barasch, Jonathan Matthew New York, N.Y. *B.A., Dartmouth, 1980*
Belisle, James Thompson Babylon, N.Y. *B.S., Cornell, 1979*
Bell, Robin Ellen New York, N.Y. *B.A., Brown, 1975*
Berkower, Alan Stewart Bronx, N.Y. *B.A., Middlebury, 1974; M.S. Yeshiva, 1978; Ph.D., 1980*
Booker, Gaile Michele Jamaica, N.Y. *B.A., Princeton, 1980*
Boschi, Alessandro Sebastian Port Chester, N.Y. *B.A., Columbia, 1980*
Brem, Rachel Frydman New York, N.Y. *B.A., Brandeis, 1979*
Brieff, David Ben Melville, N.Y. *B.A., SUNY (Stony Brook), 1980*
Brittis, Mary Ellen Yonkers, N.Y. *B.S., Columbia, 1980*
Brown, Michael Carlvan Yorktown Heights, N.Y. *B.A., Dartmouth, 1979*
Cardenosa, Gilda New York, N.Y. *B.S., Marymount, 1979*
Chak, Amitabh New York, N.Y. *B.S., Yale, 1978; M.S., 1979*

Chan, Stephen Bronx, N.Y. *B.A., Harvard, 1979*
Chietero, Michael Plainview, N.Y. *B.S., Fordham, 1980*
Christopher, Kenneth Bronx, N.Y. *B.A., Pennsylvania, 1978*
Clain, Michael Russell Great Neck, N.Y. *B.A., Brown, 1980*
Coburn, Kenneth Doyle New York, N.Y. *B.A., Brown, 1980*
Cohen, Sally Eisenberg Ridgewood, N.J. *B.A., Goucher, 1964*
Constantine, Sandra Mequon, Wi. *B.A., Harvard, 1980*
Desser, Terry S. Whitestone, N.Y. *B.A., Princeton, 1979*
Di Franco, Matthew Joaquin New York, N.Y. *B.A., California (Santa Cruz), 1979*
Draga, Aspasia E. Malba, N.Y. *B.A., Barnard, 1980*
Egnor, Michael Robert Catskill, N.Y. *B.A., Columbia, 1980*
Fallon, Regis Francis Pittsburgh, Pa. *B.A., Harvard, 1980*
Fayter, Judith Ann Staten Island, N.Y. *B.S., Pace, 1978*
Fithian, Donald Coburn Bridgeton, N.J. *B.A., Dartmouth, 1980*
Florin, Cynthia Ann New York, N.Y. *B.S., Grinnell, 1976*
Ford, Jean Guillaume Long Island City, N.Y. *B.A., Columbia, 1978*
Freeman, Phillip Sanford North Freeport, N.Y. *B.A., Princeton, 1975*
Gallay, Brian James Yonkers, N.Y. *B.A., Columbia, 1980*
Gewirtz, George Robert Bronx, N.Y. *B.A., Columbia, 1979*
Goldberg, Mark Paul Chicago, Il. *B.A., Harvard, 1980*
Goldstein, Jeffrey Alan Southfield, Mi. *B.A., Harvard, 1980*
Gorton, Christopher P. Nashua, N.H. *B.A., Dartmouth, 1980*
Goyal, Alok Kendal Park, N.J. *B.S., Columbia, 1980*
Graff, Wayne Brian Merrick, N.Y. *B.S., Adelphi, 1980*
Graham, Jeffrey Scott Summit, N.J. *B.A., Williams, 1980*
Greenbaum, Linda Ellen New York, N.Y. *B.A., Harvard, 1980*
Guthrie, Ellen Hobson Hilton Head Island, S.C. *B.A., Colorado, 1980*
Haspel, Kenneth Lewis West Hartford, Ct. *B.A., Pennsylvania, 1980*
Hibbard, Claire Alexandra Scarsdale, N.Y. *B.A., Barnard, 1979*
Hsu, Ho-Wen Timonium, Md. *B.A., Princeton, 1979*
Hyll, Marsha Karin Green Brook, N.J. *B.A., Princeton, 1975*
Ivey, Louis Albert Silver Springs, Md. *B.A., Princeton, 1980*
Jackson, Byron A. Shreveport, La. *B.A., New York University, 1980*
Jeevanandam, Valluvan M. New Milford, N.J. *B.A., Columbia, 1980*
Johnson, Gregory Kent Ridgewood, N.J. *B.A., Dartmouth, 1979*
Johnston, Peter Shivers Stockton, N.J. *B.A., Cornell, 1969; M.A., Columbia, 1972*
Jules, Kethy Marie Elmhurst, N.Y. *B.S., Marymount, 1980*
Kao, Peter Nicholas Pound Ridge, N.Y. *B.A., Harvard, 1979*
Karlin, Scott Marc Greenlawn, N.Y. *B.A., Wesleyan, 1980*
Kaye, Katherine Staten Island, N.Y. *B.A., Princeton, 1980*
Kazim, Michael Riverdale, N.Y. *B.A., Columbia, 1980*
Kellogg, Collins Frederick Croghan, N.Y. *B.A., Hamilton, 1977; M.A., Columbia, 1979*
Kim, Anthony Hyoung Queens, N.Y. *B.A., Yale, 1980*
Kim, Kami Albany, N.Y. *B.A., Harvard, 1980*
Kimball, Robert Owen Geneva, N.Y. *B.S., Cornell, 1979*
Krongrad, Arnon Harrington Park, N.J. *B.A., Columbia, 1980*
Ku, Andrew Bergenfield, N.J. *B.A., Harvard, 1980*
Lang, Thomas Philip Rochester, N.Y. *B.A., Harvard, 1980*
LaScala, Carlo Paul Port Jefferson, N.Y. *B.S., SUNY (Stony Brook), 1980*
Lattimer, Douglas Gary New York, N.Y. *B.A., Columbia, 1975; M.A., Columbia, 1978*
Leibenhaut, Mark Harris Oceanside, N.Y. *B.A., Princeton, 1980*
Levin, Neil Chevy Chase, Md. *B.S.E.S., Tufts, 1980*
Lewis, Allison Elizabeth Menlo Park, Ca. *B.S.E., Princeton, 1980*
Liberman, Laura Newton, Ma. *B.A., Harvard, 1980*
Lombardo, Gregory Thomas New York, N.Y. *B.A., Columbia, 1968; M.A., Columbia, 1980*

Love, Karen Anita Queens Village, N.Y. *B.A., Cornell, 1980*
Luyando, Yvonne New York, N.Y. *B.A., Fordham, 1980*
Ma, Averil I. Thornwood, N.Y. *B.A., Harvard, 1980*
McDonagh, Kevin T. New York, N.Y. *B.A., Columbia, 1980*
Magnes, Jeffrey New York, N.Y. *B.S., Yale, 1975*
Mahon, John Henry Huntington, N.Y. *B.S., Notre Dame, 1980*
Markowitz, Arlene Helen Scarsdale, N.Y. *B.A., Wellesley, 1980*
Mathews, Donald Marshall Schenectady, N.Y. *B.A., Harvard, 1980*
Miller, Steven Zane Rego Park, N.Y. *B.A., Columbia, 1980*
Milrod, Barbara Louise New York, N.Y. *B.S., Yale, 1979*
Modic, Frank Edward Scotia, N.Y. *B.S., Cornell, 1980*
Moss, William John Demarest, N.J. *B.A., Wesleyan, 1980*
Mulvey, Kevin Patrick Los Altos, Ca. *B.S., San Francisco, 1980*
Neustein, Steven Mark West Orange, N.J. *B.S., Massachusetts Institute of Technology, 1980*
Nimkin, Katherine New York, N.Y. *B.A., Cornell, 1978*
Nordli, Douglas Ray Melville, N.Y. *B.S., Haverford, 1980*
Odrich, Marc Geoffrey Bronx, N.Y. *B.A., Columbia, 1980*
O'Keeffe, Richard Michael, Jr. Weston, Ma. *B.A., Dartmouth, 1980*
Olsen, Janet Louise Queens Village, N.Y. *B.A., Vassar, 1978; M.S., Columbia, 1979*
Olson, Eric Jon Chadds Ford, Pa. *B.A., Princeton, 1980*
Oquendo, Maria Antonia Guaynabo, P.R. *B.S., B.A., Tufts, 1980*
Palma, James New York, N.Y. *City College, 1980*
Palmer, Barbara Ann New York, N.Y. *B.A., Barnard, 1979*
Pawlowski, Ann Margaret Lynnfield, Ma. *B.A., Harvard, 1980*
Pearl, Michael Lawrence Southfield, Mi. *B.S., Michigan, 1979*
Peng, Benjamin C. H. Kew Gardens, N.Y. *B.A., Rochester, 1980*
Pero, Robert Thomas Hyde Park, Ma. *B.A., Harvard, 1980*
Proano, Maritza Queens, N.Y. *B.A., Smith, 1980*
Quinn, Brian James Massapequa, N.Y. *B.S., SUNY (Stony Brook), 1979*
Rabbani, LeRoy E. New York, N.Y. *B.A., Harvard, 1980*
Rautenberg, Mark Alan Brockton, Ma. *B.A., Cornell, 1980*
Raymond, Elizabeth Gray Philadelphia, Pa. *B.A., Swarthmore, 1980*
Reilly, Philip Joseph New York, N.Y. *B.S., SUNY (Buffalo), 1976*
Reimold, Andreas Michael N. Canton, Oh. *B.A., Harvard, 1980*
Rennert, Douglas Andrew New York, N.Y. *B.S., Haverford, 1980*
Roberts, James Wayne Jamaica, N.Y. *B.A., Harvard, 1980*
Rodrigues, Beatriz A. Scarsdale, N.Y. *B.A., Barnard, 1980*
Romano, Thomas Jerome Camillus, N.Y. *B.S., SUNY (Buffalo), 1980*
Rottkamp, John Robert Commack, N.Y. *B.S., SUNY (Stony Brook), 1980*
Ruiz, Frank Westbury, N.Y. *B.S., Yale, 1980*
Saladini, Vincent Rocco, Jr. Clifton, N.J. *B.A., Columbia, 1980*
Santos, Annabelle Villatuya Hollis, N.Y. *B.A., Barnard, 1980*
Schmiedeberg, Phyllis N. Babylon, N.Y. *B.A., Johns Hopkins, 1980*
Schoen, Robert Edward Beverly Hills, Ca. *B.A., Columbia, 1979*
Schoenberg, Norman Island Park, N.Y. *B.A., Hofstra, 1980*
Schriger, David Lawrence Englewood, N.J. *B.A., Amherst, 1980*
Schwartzbach, Cary C. Flushing, N.Y. *B.A., Columbia, 1980*
Scuderi, Donna Marie Jamaica Estates, N.Y. *B.S., Adelphi, 1980*
Seymour, Neal Edward Oakdale, N.Y. *B.A., Columbia, 1980*
Shaw, Andrey Shin-Yee Seattle, Wash. *B.A., Columbia, 1979*
Sheffield, Mary Katherine Longmeadow, Ma. *B.S., Massachusetts Institute of Technology, 1980*
Singer, Meriamne Bruche New York, N.Y. *B.A., Yale, 1980*
Somlo, Stefan Bronx, N.Y. *B.A., Harvard, 1980*
Sorensen, Mark Francis Rockville Centre, N.Y. *B.A., Duke, 1980*

Speirs, Robert Thomas Port Washington, N.Y. *B.A., Columbia, 1980*
Spriegel, John R. Evanston, Il. *B.S.E., Princeton, 1978*
Stegall, Mark Dale Crosbyton, Tx. *B.A., Harvard, 1979*
Stork, Philip Jacques Stewart Englewood, N.J. *B.S., Harvard, 1977*
Tamargo, Rafael Jesus Santurce, P.R. *B.A., Princeton, 1980*
Teichman, Faye Brooklyn, N.Y. *B.S., Brooklyn, 1980*
Tilley, Robert John Tacoma, Wa. *B.S., Washington, 1980*
Tong, Dominic J. F. Honolulu, Hi. *B.S., Hawaii (Manoa), 1978*
Torres, Ramon Antonio New York, N.Y. *B.A., New York University, 1980*
Turey, Maureen New York, N.Y. *B.A., Barnard, 1976*
Weber, Pamela Ann Buffalo, N.Y. *B.S., McGill, 1980*
Westermann, Robert Bayless West Hartford, Ct. *B.A., Harvard, 1980*
Westrich, David Joshua New York, N.Y. *B.A., Pennsylvania, 1980*
Whitehurst, James Howell Atlanta, Ga. *B.S., Vanderbilt, 1980*
Whitley, Markus Andrew Bowie, Md. *B.S., Massachusetts Institute of Technology, 1980*
Whitlock, Mary Elizabeth Tenafly, N.J. *B.A., Smith, 1980*
Wiedermann, Joseph Gad Englewood, N.J. *B.A., Harvard, 1979*
Winston, Julia Lynn Oakland, N.J. *B.S., Bucknell, 1979*
Wirth, Robert Lockridge Troy, Mi. *B.S.E., Michigan, 1974; M.S.E., 1975*
Witham, Rebecca Sue Needham, Ma. *B.S., Yale, 1979*
Wong, Shing-Chiu East Elmhurst, N.Y. *B.A., Columbia, 1980*
Wong, Ting Hung Brooklyn, N.Y. *B.S., City College, 1980*
Yancopoulos, George Damis Elmhurst, N.Y. *B.A., Columbia, 1980*
Yen, Catherine Eleanor Honolulu, Hi. *B.S., Hawaii (Manoa), 1979*
Yuen, Jeffrey C. Brooklyn, N.Y. *B.A., Cornell, 1977; M.S., California Institute of Technology, 1978*

Student Roster: Class of 1985

Abis, David Woodbourne, N.Y. *B.S., Cornell, 1981*
Aboody, Linda Rachel Westbury, N.Y. *B.A., Brown, 1981*
Alexander, Joseph James Stockton, Ca. *B.S., California (Davis), 1981*
Aviv, Jonathan Enoch Beverly Hills, Ca. *B.A., Columbia, 1981*
Avner, Jeffrey Ronald Bellerose Manor, N.Y. *B.A., Johns Hopkins, 1981*
Bachner, Evan Jay Syossett, N.Y. *B.A., Pennsylvania, 1981*
Bank, David Eugene Scarsdale, N.Y. *B.A., Yale, 1981*
Baruch, Alice M. New York, N.Y. *B.A., Mount Holyoke, 1974; M.S., New York Medical, 1979; Ph.D., 1981*
Barzel, Eyal Bronx, N.Y. *B.Sc., Brown, 1981*
Bass, Anne Ruth New York, N.Y. *B.A., Harvard, 1981*
Batik, Odette G. New York, N.Y. *B.S., Antioch, 1977; M.P.H., Columbia, 1981*
Baum, Seth Joshua New Rochelle, N.Y. *B.A., Columbia, 1981*
Benardo, Larry Steven Anaheim Hills, Ca. *B.S., California (Irvine), 1977; Ph.D., Stanford, 1981*
Bendixen, Birgitte Holt Irvington, N.Y. *B.A., California (San Diego), 1973; M.A., 1975; C.Phil., 1977; Ph.D., 1980*
Bindelglass, David Fred White Plains, N.Y. *B.A., Harvard, 1981*
Bogosh, Samuel Winston Brookline, Ma. *B.Sc., Harvard, 1981*
Bolo, Peter Michael Grand Blanc, Mi. *B.S., Michigan, 1981*
Brancati, Frederick Louis Dix Hills, N.Y. *B.A., Harvard, 1981*
Branden, Peter John Great Neck, N.Y. *B.S., Johns Hopkins, 1981*
Brennan, John Paul New York, N.Y. *B.A., Haverford, 1975*
Brown, Robin Renee Suitland, Md. *B.S., Maryland, 1981*
Brown, William C. Sparkill, N.Y. *B.S., SUNY (Binghamton), 1981*
Brusco, Louis Yonkers, N.Y. *B.A., Columbia, 1981*

Canning, Robert Babylon, N.Y. *B.A., Columbia, 1981*
Chan, Bernadette New York, N.Y. *B.A., Barnard, 1980*
Chance, John Tighe Rutherford, N.J. *B.A., Williams, 1981*
Chang, Sophia Whasun McLean, Va. *B.A., Amherst, 1981*
Charney, Mark Alan Fullerton, Ca. *B.S., Stanford, 1981*
Coburn, Cynthia Ann New York, N.Y. *B.Sc., Brown, 1980*
Cohen, Seth Aloe Cambridge, Ma. *B.A., Harvard, 1981*
Coman, Eugene Anthony Bronx, N.Y. B.A., Wesleyan, 1981
Compaine, Andrew Guy Cherry Hill, N.J. *B.A., Harvard, 1981*
Conde, Miguel Angel New York, N.Y. *B.A., Columbia, 1980*
Crim, Julia Ruth New York, N.Y. *B.A., Oberlin, 1978*
Cushman, James Gordon Camp Hill, Pa. *B.A., Washington, 1981*
Dalak, Gregory Wakeem Staten Island, N.Y. *B.S., Yale, 1981*
Davol, Joan Evers Greenwich, Ct. *B.A., Williams, 1976*
Deutsch, Nicholas Andrew New York, N.Y. *B.A., Columbia, 1981*
Diamond, Lisa Carol New York, N.Y. *B.A., Yale, 1981*
Dickson, David Gordon Lewiston, N.Y. *B.S., Rochester, 1981*
Dirbas, Frederick Mark Brooklyn, N.Y. *B.S., Stanford, 1981*
Downey, Robert John Closter, N.J. *B.Sc., Yale, 1981*
Duberman, Eric David Armonk, N.Y. *B.A., Columbia, 1981*
Edeen, John Kearny, N.J. *B.A., Columbia, 1981*
Ehrlich, Martin Harvey New York, N.Y. *B.A., Rochester, 1973*
Emery, John Matthew Cedarhurst, N.Y. *B.A., Princeton, 1979*
Fallon, Brian Anthony Bellerose, N.Y. *B.A., Harvard, 1976; M.Ed., 1978; M.P.H., Columbia, 1980*
Flock, Timothy Joseph Garden City, N.Y. *B.A., Columbia, 1981*
Freeman, Neil Joshua Scarsdale, N.Y. *B.A., Williams, 1979*
Frend, Jeremy M. New York, N.Y. *B.A., Columbia, 1981*
Frishman, Gary Nathan Armonk, N.Y. *B.A., Pennsylvania, 1980*
Gabrieli, Christopher F.O. Buffalo, N.Y. *B.A., Harvard, 1981*
Geller, Arthur Jay East Brunswick, N.J. *B.A., Columbia, 1981*
Gerst, Steven Richard New York, N.Y. *B.A., Columbia, 1981*
Geurts, Barbara Linda So. Plainfield, N.J. *B.A., Rutgers, 1981*
Gilson, Michael Kenneth Bronx, N.Y. *B.A., Harvard, 1981*
Glassman, Steven David Teaneck, N.J. *B.A., Princeton, 1980*
Gopal, Aasha S. New York, N.Y. *B.A., Columbia, 1979; M.Sc., Massachusetts Institute of Technology, 1981*
Gordon, Marc Lawrence Rochester, N.Y. *B.A., SUNY (Buffalo), 1975; M.A., 1976*
Greenberg, Steven Mark Philadelphia, Pa. *B.A., Harvard, 1981*
Gribetz, Richard I. New York, N.Y. *B.A., Columbia, 1975; B.H.L., M.A., Jewish Theological Seminary, 1979*
Grinberg, Manuel Eduardo Roslyn, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
Harding, James Sutherland Toledo, Oh. *B.A., Harvard, 1981*
Hardy, Russell Irving Auburn, Ma. *B.A., Williams, 1978*
Hershey, Mark David Brewster, N.Y. *B.A., Rochester, 1981*
Hill, Terri Lynn Columbia, Md. *B.A., Harvard, 1981*
Hirschhorn, Lisa Ruth New York, N.Y. *B.S., Harvard, 1981*
Hodges, Marian Osborne Larchmont, N.Y. *B.A., Dartmouth, 1979*
Hoffman, Jeffrey Greg Bayside, N.Y. *B.A., Pennsylvania, 1981*
Hong, Roy W. Staten Island, N.Y. *B.A., Brown, 1981*
Housey, Gerard Mitchell Harper Woods, Mi. *B.S., Michigan, 1981*
Hripcsak, George Michael Hicksville, N.Y. *B.S., Haverford, 1981*
Jacobs, Laurie Gail Pleasantville, N.Y. *B.A., Wesleyan, 1981*
Jennis, Andrew Abraham South Orange, N.J. *B.A., Yale, 1981*
Jones, James Irvin New York, N.Y. *B.S., Columbia, 1981*

Jones, Valerie Teresa Montclair, N.J. *B.A., Dartmouth, 1981*
Julien, Juana Maria Hileah, Fl. *B.S., Miami, 1981*
Kaplan, Andrew Howard Melville, N.Y. *B.S., Harvard, 1981*
Kaplan, Bruce Plainview, N.Y. *B.S., Adelphi, 1981*
Kim, Albert Nelson Spring Valley, N.Y. *B.A., Harvard, 1981*
Klumpar, David Ivan Lexington, Ma. *B.Sc., Brown, 1981*
Koeleveld, Robin Frederick Newport News, Va. *B.A., Harvard, 1981*
Kramer, Ethan Douglas Tuscaloosa, Al. *B.A., Vassar, 1981*
Laske, Douglas Walter New York, N.Y. *B.A., Harvard, 1981*
Levine, Nancy E. Setauket, N.Y. *B.S., SUNY (Stony Brook), 1980*
Lin, Christopher Chi-Ching Forest Hills, N.Y. *B.S., Columbia, 1981*
Lloyd, Mary Ann Ellen Danville, Ca. *B.S., San Francisco, 1981*
Lodge, Henry Sears Beverly, Ma. *B.A., Pennsylvania, 1981*
Maddon, Paul Jay Bayside, N.Y. *B.A., Columbia, 1981*
Madsen, Nancy Sue Wethersfield, Ct. *B.S., Bates, 1981*
Markowitz, David Daniel Scarsdale, N.Y. *B.A., Swarthmore, 1981*
Matthew, Thomas Lewis New York, N.Y. *B.A., Harvard, 1981*
McKenzie, Keith B. Jamaica, N.Y. *B.A., Columbia, 1980*
McNulty, John Michael West Nyack, N.Y. *B.S., Columbia, 1981*
Mendez, Leonardo Guaynabo, P.R. *B.S., Yale, 1981*
Meng, Tze-Chiang New Rochelle, N.Y. *B.S., Harvard, 1981*
Morrone, Lee Ellen Lackawaxen, Pa. *B.A., Barnard, 1981*
Moscoso, Juan Francisco Guaynabo, P.R. *B.S., Michigan, 1981*
Navedo, Andres Tadeo Bronx, N.Y. *B.S., Puerto Rico, 1981*
Nunez, Richard Flushing, N.Y. *B.A., Columbia, 1981*
Oddone, Eugene Z. Colorado Springs, Co. *B.S., Denver, 1981*
Ores, David Joseph Leonia, N.J. *B.A., Ohio Wesleyan, 1981*
Pacheco, Elba Milagros Ponce, P.R. *B.A., Wellesley, 1981*
Pak, Wonkyu Sunnyvale, Ca. *B.A., Harvard, 1981*
Pearsen, Kenneth Daniel Rochester, N.Y. *B.A., Pennsylvania, 1981*
Pollock, Roger Gerard Farmingdale, N.Y. *B.A., Yale, 1981*
Radoslovich, Glauco Andrew Cliffside Park, N.J. *B.S., St. Peter's, 1981*
Reiser, Janet Ruth New York, N.Y. *B.A., Columbia, 1981*
Rosen, Beth Alyse Massapequa, N.Y. *B.A., Pennsylvania, 1981*
Rosenblum, Nancy Jamaica Estates, N.Y. *B.Sc., Cornell, 1981*
Ross, Lisa Anne Los Angeles, Ca. *B.A., Harvard, 1981*
Russo, Joseph Richard Huntington, N.Y. *B.S., St. John's (New York), 1981*
Sampson, John George Bronx, N.Y. *B.S., SUNY (Stony Brook), 1981*
Satra, Karin Helene W. Paterson, N.J. *B.A., Rutgers, 1981*
Schweitzer, Jana Tenafly, N.J. *B.A., California (Berkeley), 1981*
Seefeld, William C.R. Chappaqua, N.Y. *B.A., Duke, 1973; O.D., New England College of Optometry, 1977*
Segal, Bruce Arthur Weston, Ma. *B.A., Clark, 1981*
Shapiro, Janet Marjorie New York, N.Y. *B.S., Yale, 1981*
Sheiman, Robert Glenn Yonkers, N.Y. *B.S., Columbia, 1980*
Shikora, Scott Alan Bellerose, N.Y. *B.S., Muhlenberg, 1981*
Shlasko, Edward New York, N.Y. *B.A., Oberlin, 1979*
Siderides, Elizabeth Stamford, Ct. *B.A., Harvard, 1981*
Silbey, Mark Bennett Short Hills, N.J. *B.A., Wesleyan, 1979; M.A., Rice, 1981*
Simotas, Alexander C. Alpine, N.J. *B.A., Columbia, 1981*
Slater, Jonathan Allen New City, N.Y. *B.A., Harvard, 1981*
Spector, Paul Joseph New York, N.Y. *B.A., Amherst, 1978*
Stein, Michael David Cliffside Park, N.J. *B.A., Harvard, 1981*
Stopek, Alison Tami Plainview, N.Y. *B.A., Brown, 1981*
Straceski, Anthony Joseph E. Hartford, Ct. *B.A., Harvard, 1981*
Strachan, Alexander New York, N.Y. *B.A., Fordham, 1980*

Summit, Pamela Honey Merrick, N.Y. *B.A., Brown, 1981*
Taterka, James Andrew New York, N.Y. *B.A., Pennsylvania, 1981*
Thadani, Vjay Michael Chevy Chase, Md. *B.A., Princeton, 1976; M.Phil., Yale, 1978; Ph.D., Yale, 1981*
Theise, Neil David W. Hartford, Ct. *B.A., B.A.S., Pennsylvania, 1981*
Tissot, Marc Francis Rego Park, N.Y. *B.A., Queens (New York), 1981*
Touran, Touraj Tehran, Iran *B.A., Princeton, 1981*
Trehu, Stephen Marc Wilmington, De. *B.A., Princeton, 1981*
Valdes, Alfonso Jose Miami, Fl. *B.S., Miami, 1981*
Villegas, Robert Arturo New Hyde Park, N.Y. *B.S., St. John's (New York), 1981*
Walker, Benjamin Harrison New York, N.Y. *B.A., Bowdoin, 1981*
Warren, Wayne Scott Forest Hills, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
Weinthal, Joel Adam Pearl River, N.Y. *B.S., Stanford, 1981*
Weiss, Robert Marc N. Bellmore, N.Y. *B.S., SUNY (Stony Brook), 1981*
Willenbucher, Robert Francis New York, N.Y. *B.S., Rochester, 1981*
Wiltz, Othon San Juan, P.R. *B.S., Johns Hopkins, 1981*
Wohl, Jodie Carol New York, N.Y. *B.A., Brown, 1977*
Wolf, David Cary Livingston, N.J. *B.A., Yale, 1981*
Yarmush, Joel Mann Brooklyn, N.Y. *B.E., Cooper Union, 1977; M.A., Princeton, 1979; Ph.D., Princeton, 1981*
Zeller, Lawrence Ira New York, N.Y. *M.S.W., SUNY (Stony Brook), 1974*
Zuckerman, Alan Miles N. Rochelle, N.Y. *B.A., Harvard, 1981*

Student Roster: Class of 1986

Albanese, Salvatore San Juan, P.R. *B.S., Brandeis, 1982*
Allen, Kevin P. New York, N.Y. *B.A., Columbia, 1982*
Altmann, Dory B. West Orange, N.J. *B.A., Harvard, 1982*
Angel, Jose Manuel Sunnyside, N.Y. *B.S., City College, 1982*
Ashbaugh, Cameron D. Boise, Id. *B.A., Dartmouth, 1982*
Attia, Evelyn Scarsdale, N.Y. *B.A., Princeton, 1982*
Auerbach, Steven B. New York, N.Y. *B.S., Union (Schnectady), 1982*
Aupperle, Peter M. Melville, N.Y. *B.A., Princeton, 1982*
Balmaceda, Casilda M. Ponce, P.R. *B.S., Tufts, 1981*
Bass, Lawrence S. Great Neck, N.Y. *B.A., Cornell, 1982*
Bedichek, Ellen G. Scarsdale, N.Y. *B.A., Middlebury, 1977*
Benton, Anne F. La Jolla, Ca. *B.S., Harvard, 1981*
Boublik, Martin Caldwell, N.J. *B.A., Princeton, 1982*
Boulier, James P. Glen Burnie, Md. *B.E.S., Johns Hopkins, 1982*
Brager, Amy R. Mt. Vernon, N.Y. *B.S., Tufts, 1977*
Bramble, Daniel M. Trinidad, W.I. *B.A., Boston, 1982*
Brevig, Kjetil Orangeburg, N.Y. *B.S., Tufts, 1982*
Brody, Mark R. Somerville, Ma. *B.A., Harvard, 1979*
Bromson, Mark S. Tarrytown, N.Y. *B.A., Harvard, 1982*
Brown, Carol Leslie Los Angeles, Ca. *B.A., Harvard, 1982*
Brown, Steven L. Decatur, Ga. *B.S., Emory, 1981*
Buetow, Peter C. West Islip, N.Y. *B.S., Yale, 1982*
Burke, Steven K. Chestnut Hill, Ma. *B.A., Harvard, 1982*
Cannon, Chris P. Ridgewood, N.J. *B.A., Yale, 1982*
Carroll, Deborah J. New York, N.Y. *B.A., Harvard, 1982*
Carter, Fred M. Garden City, N.Y. *B.A., Cornell, 1982*
Castillo, Jairo E. Astoria, N.Y. *B.A., Queens (New York), 1982*
Castro, Michael P. Baltimore, Md. *B.A., Brandeis, 1979*
Chan, Angela Mei New York, N.Y. *B.A., Barnard, 1982*

Chan, Edward D. Colorado Springs, Co. *B.A., B.S., Colorado, 1982*
Chavez, Camille D. Briarwood, N.Y. *B.A., Cornell, 1977*
Chen, Ming Hui Princeton, N.J. *B.A., Princeton, 1982*
Chester, Janis Gale New York, N.Y. *B.A., Hunter, 1981*
Chow, Franklin T. Northport, N.Y. *B.S., Rochester, 1982*
Civantos, Francisco Coral Gables, Fl. *B.A., B.S., Harvard, 1982*
Clark, Richard D. Denver, Co. *B.A., California (Berkeley), 1969; Ph.D., 1975*
Coelho, Daniel D. Prospect, Ct. *B.A., Pennsylvania, 1982*
Coffey, Tom K. Portland, Or. *B.A., Stanford, 1982*
Cole, Douglas G. Casper, Wy. *B.A., Dartmouth, 1981*
Cooke, Lawrence W. Palatka, Fl. *B.S., Florida, 1982*
Dal Pan, Gerald J. Ridgewood, N.J. *B.A., Princeton, 1982*
Damm, Christopher Mineola, N.Y. *B.A., Harvard, 1980*
Davila, Jose Jorge Rio Piedras, P.R. *B.A., Princeton, 1982*
DeAlleaume, Lauren Albany, N.Y. *B.S., Massachusetts Institute of Technology, 1981*
DeMayo, William M. Ridgewood, N.J. *B.S., Boston, 1982*
Dent, John M. McLean, Va. *B.A., Harvard, 1982*
Diaz, Theresa Orangeburg, N.Y. *B.A., Brown, 1982*
Dominguez, Lourdes New York, N.Y. *B.A., Barnard, 1982*
Donovan, Nancy Jean New York, N.Y. *B.A., Bowdoin, 1978*
Duncan, Susana G. New York, N.Y. *B.A., Cambridge, 1969*
Edwards, Niloo M. New York, N.Y. *B.A., Columbia, 1969*
Ehlert, Frederick Sheboygan, Wi. *B.S., Marquette, 1982*
Ehrich, Elliot W. Marblehead, Ma. *B.A., Princeton, 1981*
Estabrook, Scott G. Far Hills, N.J. *B.S., Trinity (Connecticut), 1982*
Finkelstein, Michael Roslyn, N.Y. *B.A., Pennsylvania, 1982*
Fisher, Keith D. Oklahoma City, Ok. *B.S., Oklahoma, 1982*
Fradin, Mark S. Buffalo, N.Y. *B.A., Brown, 1981*
Frieden, Thomas R. Larchmont, N.Y. B.A., Oberlin, 1982
Friedman, Noah J. Flushing, N.Y. *B.S., SUNY (Binghampton), 1982*
Friedmann, Craig H. New York, N.Y. *B.A., Brandeis, 1975*
Garrity, Michael J. Hingham, Ma. *B.A., Massachusetts (Amherst), 1981*
Gelernt, Mark D. Bronx, N.Y. *B.S., Yale, 1982*
Gilson, Michael F. Cambridge, Ma. *B.S.E., Princeton, 1978*
Gomes, John L. Waltham, Ma. *B.Sc., Brown, 1982*
Gonzalez, Charles J. New York, N.Y. *B.A., Columbia, 1980*
Gordon, Paul Clark Woodbridge, Ct. *B.A., Yale, 1982*
Greenblatt, Eric P. New York, N.Y. *B.S., Michigan, 1982*
Gruen, John P. New York, N.Y. *B.A., Yale, 1976*
Hardy, Stephen P. New York, N.Y. *B.A., Colgate, 1979*
Hartman, Sarah Washington, D.C. *B.S., Tufts, 1977*
Housepian, David M. New York, N.Y. *B.A., Columbia, 1982*
Hyman, Barry Scott New York, N.Y. *B.A., Columbia, 1977*
Jadonath, Ram Lakhan Queens, N.Y. *B.A., Queens (New York), 1982*
Jay, Cheryl Ann Torrance, Ca. *B.S., California (Los Angeles), 1982*
Jicha, Douglas L. Ardsley, N.Y. *B.A., Columbia, 1982*
Johannet, Christopher New York, N.Y. *B.A., Sarah Lawrence, 1977*
John, Joseph A. Bronx, N.Y. *B.Sc., City College, 1982*
Jonassen, Amy E. Locust Valley, N.Y. *B.A., Rice, 1981*
Jones, Sean Eric Seattle, Wa. *B.A., Reed, 1980*
Joseph, Antonio, Jr. Brooklyn, N.Y. *B.S., City College, 1982*
Korner, Judy New York, N.Y. *B.A., Barnard, 1979*
Kraus, Warren M. Valley Stream, N.Y. *B.S., SUNY (Albany), 1982*
Kuester, David J. Woodside, N.Y. *B.A., Wisconsin, 1974*
Kugelmass, Aaron D. Stoors, Ct. *B.A., Columbia, 1982*
Lanier, Diane L. Brooklyn, N.Y. *B.A., Cambridge, 1979*

Leavitt, Robert P. Longmeadow, Ma. *B.S., Trinity (Connecticut), 1982*
Lennon, Paul F. Saddle River, N.J. *B.S., Harvard, 1982*
Lerner, Barron H. University Heights, Oh. *B.A., Pennsylvania, 1982*
Lewin, Julie M. Princeton, N.J. *B.S.E., Princeton, 1982*
Linden, Todd B. North Caldwell, N.J. *B.A., B.Sc., Brown, 1982*
Linskey, Mark E. Somerville, N.J. *B.A., Dartmouth, 1982*
Lopez, Juan A. Plantation, Fl. *B.A., Johns Hopkins, 1982*
Lundblad, James R. Yakima, Wa. *B.S., Stanford, 1981*
Lunt, John G. Saratoga, Wy. *B.A., Colorado, 1980*
Maday, Michael G. Mt. Prospect, Il. *B.A., Knox, 1981; M.A., Columbia, 1982*
Malkani, Arthur L. New York, N.Y. *B.S., Columbia, 1982*
Mandel, Susan J. New York, N.Y. *B.A., Harvard, 1982*
Marco, Aian P. Oakhurst, N.J. *B.A., Johns Hopkins, 1982*
McCormack, Bruce M. Short Hills, N.J. *B.A., Brown, 1982*
Miller, Thomas E. Richmond, In. *Princeton, 1981*
Mitrane, Donald P. North Bergen, N.J. *B.A., Pennsylvania, 1982*
Mitrani, Raul Brooklyn, N.Y. *B.A., Columbia, 1982*
Morales, Susan Pelham, N.Y. *B.A., Harvard, 1982*
Muscat, Paul L. New York, N.Y. *B.A., Columbia, 1982*
Naidu, Rahul K. Skokie, Il. *B.Sc., Stanford, 1982*
Nazarian, Levon N. Englewood Cliffs, N.J. *B.A., Harvard, 1982*
Nields, Jenifer A. Huntington, N.Y. *B.A., Harvard, 1977*
Owen, Heidi M. New York, N.Y. *B.A., Rhode Island, 1976; B.S., 1978*
Park, Edward K. Holbrook, N.Y. *B.A., Harvard, 1981*
Parsons-Armstrong, Susan Sharon Springs, N.Y. *B.A., Kirkland, 1976*
Pearl, Barbara S. New York, N.Y. *B.A., Emory, 1974*
Perese, Deniz A. Buffalo, N.Y. *B.A., Harvard, 1982*
Pernis, Alessandra B. Bronxville, N.Y. *B.A., Barnard, 1981*
Picou, Dian A. Brooklyn, N.Y. *B.S., City College, 1982*
Polsen, Dianne C. New York, N.Y. *B.S., Mercy, 1978*
Rapuano, Christopher Ridgewood, N.J. *B.A., Brown, 1982*
Re, Louis S. Yonkers, N.Y. *B.A., Columbia, 1982*
Rich, Harlan G. Rego Park, N.Y. *B.A., Columbia, 1982*
Roland, Aaron M. Livermore, Ca. *B.A., Yale, 1979*
Roth, Jeffrey S. New Haven, Ct. *B.A., Columbia, 1981*
Rubin, Marc S. Chestnut Hill, Ma. *B.A., Williams, 1982*
Rudolf, Margaret S. New York, N.Y. *B.S., Brown, 1981*
Sable, David B. West Orange, N.J. *B.S., Pennsylvania, 1981*
Saffran, Alan J. Jackson Heights, N.Y. *B.A., Columbia, 1981*
Santoro, Ian H. Dover, Ma. *B.A., Harvard, 1980*
Schwann, Thomas A. South Massapequa, N.Y. *B.A., Columbia, 1982*
Seidner, Elyse L. Philadelphia, Pa. *B.A., Pennsylvania, 1982*
Siller, Karen A. Pleasantville, N.Y. *B.A., Pace, 1972*
Slawin, Kevin M. Valley Stream, N.Y. *B.A., Columbia, 1982*
Slusser, Wendelin M. New York, N.Y. *B.A., Princeton, 1981*
Smith, David A. White Plains, N.Y. *B.A., Harvard, 1965*
Solnick, Jay V. Kansas City, Ks. *B.A., California (San Diego), 1971; Ph.D., North Carolina, 1977*
Stauffer, J. Turner Hamilton, N.Y. *B.A., Dartmouth, 1982*
Strauch, Robert J. New Rochelle, N.Y. *B.A., Columbia, 1982*
Tamman, Richard Short Hills, N.J. *B.A., Johns Hopkins, 1982*
Teltscher, Janet C. Roslyn, N.Y. *B.A., Harvard, 1981*
Thomas, William G. Clinton, Md. *B.S., George Washington, 1982*
Tronolone, William Raritan, N.J. *B.A., Lafayette, 1982*
Turtel, Lawrence S. Melville, N.Y. *B.A., Harvard, 1982*
Warren, Stephen P. Newark, N.Y. *B.A., Dartmouth, 1982*

Watnick, Terry South Orange, N.J. *B.S., Brown, 1981*
Weil, Henry Cooperstown, N.Y. *B.A., Hamilton, 1980*
Weinstein, Toba A. Garden City, N.Y. *B.A., SUNY (Binghamton), 1982*
Weinstock, Ira A. Boulder, Co. *B.A., Williams, 1980*
White, Richard L., Jr. Ithaca, N.Y. *B.A., Cornell, 1982*
Wint, Jeffrey C. New Hyde Park, N.Y. *B.A., Pennsylvania, 1982*
Yonkers, Kimberly A. New York, N.Y. *B.A., Amherst, 1979*

Student Roster: Class of 1987

Adams, William G. Hamilton, Ma. *B.A., Harvard, 1982*
Adler, Sidney J. Bellmore, N.Y. *B.A., Pennsylvania, 1983*
Ahn, Jeffrey Min Claremont, Ca. *B.A., Pomona, 1983*
Anderson, William Suffern, N.Y. *B.A., Harvard, 1983*
Andreasson, Katrin I. San Francisco, Ca. *M.S., Stanford, 1983*
Atlas, Steven J. Bethesda, Md. *B.S., Tufts, 1982*
Bacon, Charles K. Westwood, Ma. *B.S., Harvard, 1983*
Bell, Myron Aiken, S.C. *B.A., Yale, 1983*
Benjamin, Ivor Great Neck, N.Y. *B.S., Yale, 1983*
Bethel, Colin A. Nassau, Bahamas *B.A., Harvard, 1983*
Bichell, David Baltimore, Md. *B.A., Johns Hopkins, 1980*
Binderow, Sander R. Douglaston, N.Y. *B.S., Yale, 1983*
Bingham, Peter M. Dobbs Ferry, N.Y. *B.A., Harvard, 1981*
Bowe, Barbara Ridgewood, N.J. *B.A., Pennsylvania, 1983*
Brzustowics, Linda New Hyde Park, N.Y. *B.A., Harvard, 1983*
Burd, Randall East Longmeadow, Ma. *B.A., Dartmouth, 1983*
Butler, Marilyn W. Harris, Tx. *B.A., Harvard, 1981*
Buyske, Jo Los Angeles, Ca. *B.A., Cornell, 1981*
Carrancejie, Margo New York, N.Y. *B.S., Cornell, 1983*
Carter, Judy A. New York, N.Y. *B.S., SUNY (Albany), 1977*
Cataquet, David New York, N.Y. *B.A., Columbia, 1983*
Chang, Mark W. Kalamazoo, Mi. *B.A., Harvard, 1983*
Chen, Yu Liang Cayce, S.C. *B.S., South Carolina, 1983*
Chess, Mitchell A. Monsey, N.Y. *B.S., Union, 1983*
Chien, Ann M. Englewood, N.J. *B.S., Yale, 1983*
Colon, Francisco G. Rio Pedras, P.R. *B.S., Washington, 1983*
Constantindes, Minas Narrangasett, R.I. *B.A., Brown, 1983*
Cosman, Bard C. Hillsdale, N.Y. *B.A., Harvard, 1983*
Curran, Peter G. New York, N.Y. *B.A., Middlebury, 1980*
D'Amico, Thomas Wilmington, De. *B.A., Harvard, 1982*
Davison, Henry Jr. New York, N.Y. *B.A., Columbia, 1983*
Dawson, Scott C. New Rochelle, N.Y. *B.A., Columbia, 1983*
DellAngelo, Robert Pound Ridge, N.Y. *B.A., Columbia, 1983*
Densel, Donna L. Wayne, N.J. *B.S., Duke, 1983*
Dickstein, Marc L. Roslyn Heights, N.Y. *B.A., Pennsylvania, 1983*
Diefenbach, Pamela New York, N.Y. *B.A., Barnard, 1981*
Dominguez, Kenneth Whittier, Ca. *B.A., Harvard, 1983*
Dorman, Michael A. Livingston, N.J. *B.A., Lafayette, 1983*
Edelstein, Patti M. Scotch Plains, N.J. *B.S., Georgetown, 1983*
Erdmann, Anthony C. New York, N.Y. *B.A., Harvard, 1968*
Fairbanks, Mary E. Troy, N.Y. *B.A., Dartmouth, 1983*
Figueredo, Vincent M. Tampa, Fl. *B.S., Haverford, 1983*
Fine, Robert B. Setauket, N.Y. *B.A., Columbia, 1983*
Flood, Mary Theresa New York, N.Y. *Ph.D., New York University, 1976*
Forese, Laura Lee Franklin Lakes, N.J. *B.S.E., Princeton, 1983*

Fuller, Jonathan E. New York, N.Y. *B.A., Columbia, 1979*
Gazetas, Polyxene New York, N.Y. *B.A., Barnard, 1983*
Goldstoff, Michael Ithaca, N.Y. *B.S., Cornell, 1983*
Graff, Steven Neal Trenton, N.J. *B.A., Harvard, 1983*
Green, Andrew Great Neck, N.Y. *B.A., Princeton, 1983*
Grimm, Cordelia New York, N.Y. *B.A., Harvard, 1981*
Guidera, Steven A. Englishtown, N.J. *B.A., Franklin and Marshall, 1983*
Hahn, Chiwon Storrs, Ct. *B.S., Massachusetts Institute of Technology, 1983*
Hedberg, Viking A. Westhampton Beach, N.Y. *B.S., Yale, 1983*
Ho, Kevin Cleveland Heights, Oh. *B.A., Harvard, 1982*
Hoe, Robin Kim Flushing, N.Y. *B.S., Massachusetts Institute of Technology, 1983*
Hohl, William M. Santa Monica, Ca. *B.A., Harvard, 1980*
Horwitz, Mara Jean Brightwaters, N.Y. *B.A., Northwestern, 1983*
Hudak, Craig M. West Hartford, Ct. *B.A., Princeton, 1983*
Jacobson, Mercedes New York, N.Y. *B.A., Barnard, 1982*
Jaile-Jesus, C. New York, N.Y. *B.A., Manhattanville, 1983*
Jeffers, Jasmine G. Brooklyn, N.Y. *B.S., SUNY (Stony Brook), 1983*
Joseph, Kimberly T. Silver Spring, Md. *B.A., Maryland, 1983*
Kaplan, Andrew S. Memphis, Tn. *B.A., Yale, 1983*
Kazim, Robert Bronx, N.Y. *B.A., Columbia, 1983*
Kelly, Katherine J. Flushing, N.Y. *B.A., Swarthmore, 1981*
Kim, Hyung Leona Spring Valley, N.Y. *B.A., Barnard, 1983*
Kim, Steve Ho-Suk Maumee, Oh. *B.S., Massachusetts Institute of Technology, 1983*
Klein, Jeffrey D. Flushing, N.Y. *B.A., Harvard, 1983*
Krauss, William E. Northbrook, Il. *B.A., Harvard, 1983*
Kurth, Rebecca Jane Methuen, Ma. *B.A., Harvard, 1983*
Landschultz, William Dubuque, Ia. *B.A., M.S., Chicago, 1982*
Lane, Mariellen Ardsley, N.Y. *B.S., Fordham, 1983*
Laufer, Terri M. Rockville, Md. *B.A., Princeton, 1983*
Lawrence, Peter Bronx, N.Y. *B.S., Long Island, 1983*
Lee, Thomas H. Worthington, Oh. *B.A., Amherst, 1983*
Levine, Daniel Elmont, N.Y. *B.A., Brown, 1981*
Lewtas, Joanne L. Toronto, Can. *B.A., Bowdoin, 1983*
Li, Deborah C. Rumson, N.J. *B.S., Bryn Mawr, 1983*
Loiselle, John M. Sharon, Ma. *B.A., Harvard, 1983*
Lovett, James E. Summit, N.J. *B.S., Bates, 1983*
Luban, Jeremy New York, N.Y. *B.A., SUNY (Purchase), 1982*
Lutzker, Stuart G. Tappan, N.Y. *B.A., Columbia, 1983*
Lynch, Julia A. San Francisco, Ca. *B.S., California (Davis), 1983*
MacArthur, Solange New York, N.Y. *B.A., Hunter, 1983*
Mann, Michael A. Flushing, N.Y. *B.A., Yeshiva, 1983*
Markowitz, Marian P. Scarsdale, N.Y. *B.A., Wellesley, 1983*
Maxcy, Jeffrey L. Marion, In. *B.S., Purdue, 1983*
Mayer, Pierre V. Medford, Ma. *B.A., Harvard, 1982*
Mayor, Manuel R. Miami, Fl. *B.A., Brandeis, 1983*
McDonagh, Thomas Bellrose, N.Y. *B.A., Haverford, 1983*
McGuire, Dawn New York, N.Y. *B.A., Princeton, 1976*
Mendez, Beatriz Jackson Heights, N.Y. *B.A., Barnard, 1983*
Michaels, Basil M. Bridgeport, Ct. *B.A., Columbia, 1983*
Munier, Michael A. San Francisco, Ca. *B.A., California (Berkeley), 1983*
Muntzer, Ann M. Bellrose, N.Y. *B.A., Amherst, 1983*
Myers, Ilana D.R. Weston, Ma. *B.A., Cambridge, 1980*
Nakamura, Glenn E. Sepulveda, Ca. *B.S., California Institute of Technology, 1983*
Nicolaides, Maria N. New York, N.Y. *B.A., Barnard, 1980*
Novins, Douglas K. Ardsley, N.Y. *B.A., Columbia, 1983*
Palmer, William S. New York, N.Y. *B.S., Columbia, 1982*

Parada, Nereida A. Hato Rey, P.R. *B.A., Princeton, 1983*
Peterson, Karen L. Stratford, Ct. *B.A., Brown, 1983*
Phillips, Louise A. New York, N.Y. *B.A., Kean, 1973*
Porras, Cornelio J. Brooklyn, N.Y. *B.A., New York University, 1983*
Pruitt, Scott San Antonio, Tx. *B.A., Harvard, 1983*
Rayhill, Stephen New Hartford, N.Y. *B.S., Middlebury, 1978*
Rinko, Carol Jean New York, N.Y. *B.A., Cornell, 1983*
Roach, Neil A. Englewood, N.J. *B.A., Rutgers, 1983*
Rodriguez-Ema, Martin Marietta, Ga. *B.S., Yale, 1983*
Rodts, Gerald E. Princeton, N.J. *B.A., Princeton, 1983*
Roelke, Marc Greenwich, Ct. B.S., Brown, 1983
Rosenberg, Michael Brooklyn, N.Y. *B.A., Columbia, 1983*
Rubin, John A. Brookline, Ma. *B.A., Harvard, 1983*
Ryan, Michael H. New Haven, Ct. *B.A., Harvard, 1983*
Ryu, Janice K. Northridge, Ca. *B.A., Harvard, 1983*
Sanda, Martin G. New Haven, Ct. *B.A., Yale, 1983*
Saltman, Adam E. Woodcliff Lake, N.J. *B.A., Harvard, 1983*
Saxon, James Jackson Heights, N.Y. *B.F.A., New York University, 1977*
Schainholz, Daniel Teaneck, N.J. *B.A., Columbia, 1983*
Schierman, Steven W. Brooklyn, N.Y. *B.A., Cornell, 1983*
Schwartzberg, Pamela Amherst, Ma. *B.A., Princeton, 1981*
Selznick, Hugh S. New Rochelle, N.Y. *B.A., Cornell, 1983*
Shannon, Kevin M. Tampa, Fl. *B.S., Haverford, 1983*
Shapiro, Robert E. Chappaqua, N.Y. *B.A., Pennsylvania, 1978*
Shibutani, Yasushi Chappaqua, N.Y. *B.A., Pennsylvania, 1983*
Shumway, Joseph B. Cheyenne, Wy. *B.S., Brigham Young, 1983*
Snook, Curtis P. New York, N.Y. *B.A., Harvard, 1982*
Soler, Maria E. Astoria, N.Y. *B.A., Barnard, 1983*
St. Clair, Steven H. Sarasota, Fl. *B.A., Dartmouth, 1983*
Stevens, Peter D. Wayne, Pa. *B.A., Columbia, 1983*
Stone, Joanne L. Roslyn Heights, N.Y. *B.A., Franklin and Marshall, 1983*
Stormberg, David Sidney, Ne. *B.A., Concepcion Seminary, 1978*
Suarez, Sylvia M. Tenafly, N.J. *B.A., Smith, 1983*
Sweeney, Sheila A. New York, N.Y. *B.A., Dartmouth, 1983*
Taylor, Thomas S. Marblehead, Ma. *B.A., Dartmouth, 1981*
Thal, Gary D. Port Washington, N.Y. *B.A., Pennsylvania, 1983*
Thornhill, Marsha Spring Valley, N.Y. *B.A., Barnard, 1983*
Torres, Jose A. Santa Paula, P.R. *B.S., Brandeis, 1983*
Walton, Stacie L. Denver, Co. *B.A., Stanford, 1980*
Weber, Jonathon T. New York, N.Y. *B.A., Princeton, 1980*
Weine, Steven M. Farmington Hills, Mi. *B.A., Michigan, 1982*
Welch, Robert J. Quincy, Ma. *B.A., Harvard, 1983*
Whang, Ihn Seong Amherst, N.Y. *B.A., Duke, 1983*
Willis, James R. Eau Claire, Wis. *B.S., Wisconsin, 1983*
Wong, Lawrence Ellicot City, Md. *B.S., Johns Hopkins, 1983*
Yin, Way Silver Spring, Md. *B.S., Maryland, 1982*
Young, Gregory J. Parsippany, N.J. *B.A., Holy Cross, 1983*
Ziarnik, William Westfield, N.J. *B.S., Duke, 1983*

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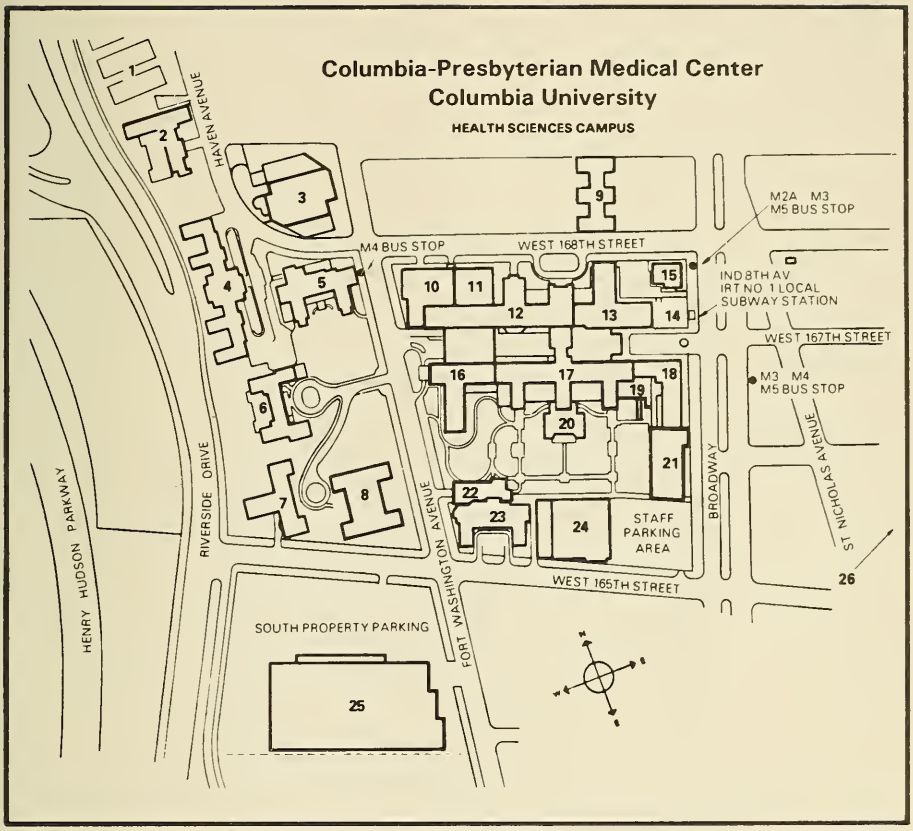

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2 Bard Hall Medical Student Residence
1 Bard Haven Towers
10 William Black Medical Research Building
3 Cancer Center/Institute of Cancer Research
24 Central Service Building
12 College of Physicians and Surgeons
26 Center for Community Health Systems
13 School of Dental and Oral Surgery
9 Georgian Nurses Residence
22 Edward S. Harkness Eye Institute
23 Eye Institute Research Laboratories
7 Harkness Memorial Hall
16 Harkness Pavilion
20 Pauline A. Hartford Memorial Chapel
3 Julius and Armand Hammer Health Sciences Center
3 Institute of Human Nutrition
2/12 International Institute for the Study of Human Reproduction
6 Anna C. Maxwell Hall, School of Nursing Residence
5 The Neurological Institute of New York
6 School of Nursing
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New York Orthopedic Hospital
Sloane Hospital for Women
Squier Urological Clinic
4 New York State Psychiatric Institute
4 Psychoanalytic Clinic
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